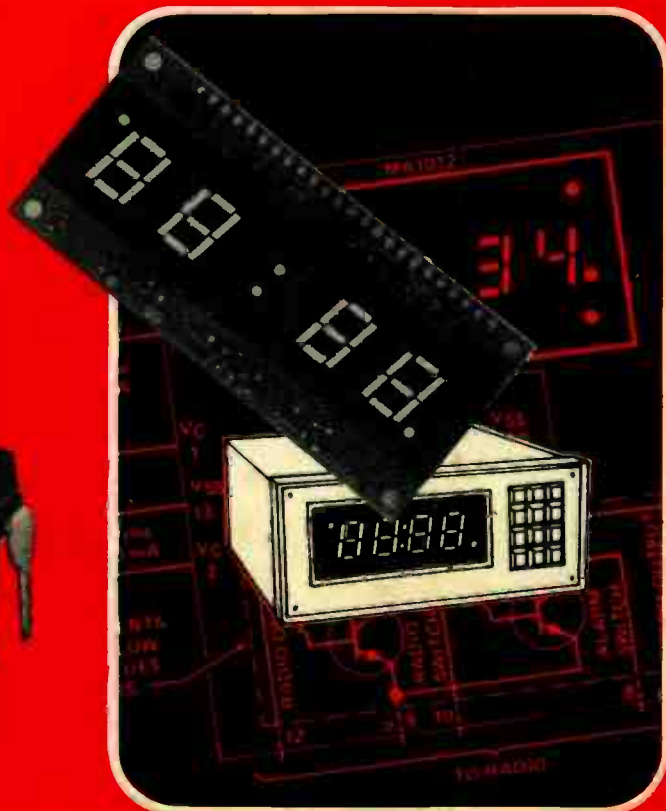Cat. No. 276-4002

$1.95

1978 EDITION

# SEMICONDUCTOR REFERENCE

## and application HANDBOOK

**INCLUDES OVER 46,000 SEMICONDUCTOR SUBSTITUTIONS**

# INTEGRATED CIRCUIT CROSS REFERENCE
# BY GENERIC AND CATALOG NUMBER

| Generic Number | Cat. No. | Page No. | Generic Number | Cat. No. | Page No. | Generic Number | Cat. No. | Page No. | Generic Number | Cat. No. | Page No. |
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| 21L01 | 276-2501 | 52 | 723 | 276-1740 | 42 | 7402 | 276-1811 | 53 | 7490 | 276-1808 | 62 |
| 74C00 | 276-2301 | 24 | 741 | 276-007 | 42 | 7404 | 276-1802 | 53 | 7492 | 276-1819 | 63 |
| 74C02 | 276-2302 | 24 | 741 | 276-010 | 42 | 7406 | 276-1821 | 54 | 7805 | 276-1770 | 49 |
| 74C04 | 276-2303 | 24 | 1458 | 276-038 | 43 | 7408 | 276-1822 | 54 | 7812 | 276-1771 | 49 |
| 74C08 | 276-2305 | 24 | 3900 | 276-1713 | 43-44 | 7410 | 276-1807 | 54 | 7815 | 276-1772 | 49 |
| 74C74 | 276-2310 | 25 | 3909 | 276-1705 | 45 | 7413 | 276-1815 | 55 | 8080 | 276-2510 | 19-23 |
| 74C76 | 276-2312 | 25 | 3911 | 276-1706 | 46 | 7420 | 276-1809 | 55 | 50252 | 276-1751 | 50 |
| 74C90 | 276-2315 | 26 | 4001 | 276-2401 | 27 | 7427 | 276-1823 | 55 | 74123 | 276-1817 | 63 |
| 74C192 | 276-2321 | 26 | 4011 | 276-2411 | 27 | 7432 | 276-1824 | 56 | 74145 | 276-1828 | 64 |
| 74C193 | 276-2322 | 26 | 4013 | 276-2413 | 28 | 7441 | 276-1804 | 56 | 74150 | 276-1829 | 65 |
| 301 | 276-017 | 35 | 4017 | 276-2417 | 29 | 7447 | 276-1805 | 57 | 74154 | 276-1834 | 66 |
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| 339 | 276-1712 | 37 | 4027 | 276-2427 | 31 | 7451 | 276-1825 | 58 | 74193 | 276-1820 | 68 |
| 377 | 276-702 | 38 | 4049 | 276-2449 | 32 | 7473 | 276-1803 | 59 | 74194 | 276-1832 | 69 |
| 386 | 276-1731 | 39 | 4050 | 276-2450 | 32 | 7474 | 276-1818 | 59 | 74196 | 276-1833 | 70 |
| 555 | 276-1723 | 40 | 4511 | 276-2447 | 33 | 7475 | 276-1806 | 60 | 75491 | 276-1701 | 51 |
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# INTEGRATED CIRCUIT CROSS REFERENCE
# BY CATALOG AND GENERIC NUMBER

| Cat. No. | Generic Number | Page No. | Cat. No. | Generic Number | Page No. | Cat. No. | Generic Number | Page No. | Cat. No. | Generic Number | Page No. |
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| 276-007 | 741 | 42 | 276-1756 | 7001 | 47-48 | 276-1819 | 7492 | 63 | 276-2310 | 74C74 | 25 |
| 276-010 | 741 | 42 | 276-1770 | 7805 | 49 | 276-1820 | 74193 | 68 | 276-2312 | 74C76 | 25 |
| 276-017 | 301 | 35 | 276-1771 | 7812 | 49 | 276-1821 | 7406 | 54 | 276-2315 | 74C90 | 26 |
| 276-038 | 1458 | 43 | 276-1772 | 7815 | 49 | 276-1822 | 7408 | 54 | 276-2321 | 74C192 | 26 |
| 276-702 | 377 | 38 | 276-1801 | 7400 | 53 | 276-1823 | 7427 | 55 | 276-2322 | 74C193 | 26 |
| 276-1701 | 75491 | 51 | 276-1802 | 7404 | 53 | 276-1824 | 7432 | 56 | 276-2401 | 4001 | 27 |
| 276-1702 | 75492 | 51 | 276-1803 | 7473 | 59 | 276-1825 | 7451 | 58 | 276-2411 | 4011 | 27 |
| 276-1705 | 3909 | 45 | 276-1804 | 7441 | 56 | 276-1826 | 7485 | 61 | 276-2413 | 4013 | 28 |
| 276-1706 | 3911 | 46 | 276-1805 | 7447 | 57 | 276-1827 | 7486 | 61 | 276-2417 | 4017 | 29 |
| 276-1711 | 324 | 36 | 276-1806 | 7475 | 60 | 276-1828 | 74145 | 64 | 276-2420 | 4020 | 30 |
| 276-1712 | 339 | 37 | 276-1807 | 7410 | 54 | 276-1829 | 74150 | 65 | 276-2427 | 4027 | 31 |
| 276-1713 | 3900 | 43-44 | 276-1808 | 7490 | 62 | 276-1831 | 74192 | 67 | 276-2447 | 4511 | 33 |
| 276-1721 | 567 | 41 | 276-1809 | 7420 | 55 | 276-1832 | 74194 | 69 | 276-2449 | 4049 | 32 |
| 276-1723 | 555 | 40 | 276-1811 | 7402 | 53 | 276-1833 | 74196 | 70 | 276-2450 | 4050 | 32 |
| 276-1724 | 566 | 41 | 276-1813 | 7476 | 60 | 276-1834 | 74154 | 66 | 276-2490 | 4518 | 34 |
| 276-1728 | 556 | 40 | 276-1815 | 7413 | 55 | 276-2301 | 74C00 | 24 | 276-2501 | 21L02 | 52 |
| 276-1731 | 386 | 39 | 276-1816 | 7448 | 58 | 276-2302 | 74C02 | 24 | 276-2510 | 8080 | 19-23 |
| 276-1740 | 723 | 42 | 276-1817 | 74123 | 63 | 276-2303 | 74C04 | 24 | | | |
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# INTRODUCTION

This SEMICONDUCTOR REFERENCE HANDBOOK is intended to be just that—a reference handbook. It is not a definitive text book on semiconductors. It is a compilation of data on Radio Shack's line of prime-quality ARCHER semiconductors. Every ARCHER device covered in this Handbook is guaranteed prime—they are not "fall-outs" or "seconds"; all are top-quality, with known JEDEC, EIA or manufacturer's numbers.

At the back of the book is a cross-reference listing for replacement of Transistors, Diodes and other interchangeable semiconductor devices. The total number of cross-referenced devices exceeds 46,000. These cross-reference/replacement listings are computer-selected and are based on careful analysis of important parameters of the listed devices.

**NOTE:** If you can't find a replacement listing for a device you require, refer to the specification listings of the appropriate ARCHER family device. Often you will be able to make suitable replacements based on the information presented

Each ARCHER replacement should meet or exceed the required parameters. However, due to differences in Quality Control and Manufacturing procedures (which often allow for or result in broad parameter variations), and because many of the ARCHER devices are capable of better performance than the original, Radio Shack does not guarantee, nor does it imply, that the listed items will provide an exact replacement in **every** instance. Therefore we recommend that you check the voltage and current requirements of the circuit (and other pertinent specifications) before replacement and compare with the specifications listed for that particular ARCHER device.

## HOW TO USE THIS BOOK

This book has been prepared to aid in BOTH replacement and original applications of Semiconduct devices. The information included will be invaluable for the service technician as well as the circuit designer (whether he be an engineer, hobbyist, student or electronics experimenter).

We have included hints on handling Semiconductor devices, operating considerations, and some simple tests to aid you in evaluating the quality of the device in existing equipment (and thus the need for replacement). Also, a complete section on the specifications for each of the ARCHER devices is included; if there is any question in your mind about replacement equivalents or original use, refer to the appropriate category in the book. You will find the important characteristics specified there.

The next to last section is an extensive listing of replacement and cross reference between other manufacturer's numbers (both JEDEC/EIA 2N— numbers and in-house designations) and the ARCHER devices. This listing provides for the substitution of over 46,000 semiconductors with ARCHER devices.

The final section includes case style drawings and some handy reference notes, a comprehensive glossary of commonly used words, plus symbols and abbreviations.

## CARE AND HANDLING OF TRANSISTORS

Most modern transistors are somewhat immune from mechanical shock; however, it is always a good idea to keep them from excessive mechanical shocks, especially the metal-case type (avoid dropping, etc).

**When cutting transistor leads,** use scissor-type cutting tools (rather than diagonal cutting tools which use a crimping action). Crimp-type cutting tools produce a mechanical shock along the lead which when transmitted to the semiconductor chip or material can cause fracture. Consider the force with which the cut lead flies off the crimp-type cutting tool and you have a good idea of the intensity of the equal and opposite force which acts on the lead going into the device.

**It is always a good practice to use a heat-sink tool** on a transistor lead when soldering (use a low-wattage iron—30-watts or less). Heat from soldering can cause problems (especially with certain types of semiconductor devices). Thus, to be sure, always use a heat-sink on the lead when soldering. Gripping the lead with long nose pliers between the solder connection and the case of the device makes a good heat-sink; or use a tool designed for such use.

## SILICON OR GERMANIUM?

The quickest way to determine if a transistor is germanium or silicon type, is to check the normal emitter-base voltage drop. With NPN devices, if the base is approximately 0.25 volts positive with respect to the emitter, it is a germanium type. If the voltage is about 0.65 volts, it is a silicon type. For PNP devices, the voltage will be the same value, but opposite in polarity (0.25 volts for germanium and 0.65 for silicon).

## OPERATING CONSIDERATIONS

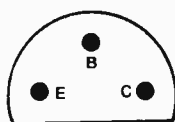Before replacing an original-equipment device with the recommended Archer Type:

(A) Compare the lead or terminal arrangement of the Archer replacement device with the lead or

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terminal arrangement of the original device. If these arrangements are different, and the original transistor is a "plug in" type, bend the leads of the ARCHER device so that the base, emitter and collector leads will mate with the original transistor leads. Trim the leads after soldering in place.

**CAUTION:** Be particularly careful about "pin-circle" and "in-line" lead break-out type transistors. Often one manufacturer makes a type with "in-line" leads, while another may make the same type with "pin-circle" configuration. **Double-check both the original and the replacement device before soldering or plugging in transistors.**

## BOTTOM VIEW

PIN-CIRCLE        IN-LINE
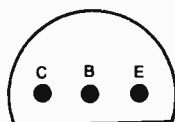
(B) Certain considerations are involved whenever an original equipment transistor is replaced by one having a different type designation. When an ARCHER series transistor is used to replace an original equipment device in an untuned amplifier stage operating at a low signal level such as the untuned RF-amplifier (antenna) stage of a radio receiver, or a low-level AF amplifier stage, it is generally unnecessary to make any circuit adjustment to assure proper performance of the equipment. However, when a replacement is made in a tuned RF amplifier stage, it is always advisable to check the alignment of the associated tuned circuits to assure proper tracking and to achieve the required gain without loss of stability.

(C) When replacements are made in stages operating at relatively high power levels, such as Class A and Class B, AF output stages of automobile radio receivers, phonographs and AF-amplifier systems, the transistor bias should be checked and adjusted, if necessary, to protect the ARCHER replacement transistors against excessive dissipation and to minimize distortion. Means for making adjustments are generally provided in the equipment, and the necessary instructions are usually given in the equipment manufacturer's service data.

(D) When installing an ARCHER transistor as a substitute for an original equipment type in an FM tuner, TV tuner, or other circuits operating at frequencies in the VHF or UHF regions, it is extremely important not to change any of the lead lengths or position of the original circuit. Before removing the original transistor, carefully note its position with respect to other circuit components as well as the lengths and placement

of the transistor leads, and duplicate these details as closely as possible with the ARCHER replacement transistor. Failure to observe this precaution can result in improper tuning or circuit instability. The same holds true for any replacement of Integrated Circuits, especially in FM radios and TV Receivers. Failure to observe this precaution can result in damage in the device. Transistor substitution in tuned circuits will often require realignment of the circuit.

## SILICON VS SELENIUM RECTIFIERS

Silicon rectifiers are inherently more efficient than selenium or other metallic-oxide type rectifiers. When a silicon rectifier is used to replace a selenium rectifier in the power supply of a typical line-operated radio or TV receiver, the silicon rectifier will frequently deliver higher DC output voltage than the original device.

In some cases, this higher supply voltage may improve the performance of the equipment. However, in many other cases, it may immediately or eventually damage filter capacitors and/or other components which were designed to withstand only the voltage delivered by the original selenium rectifier. To prevent such damage, it is generally advisable to insert a power type resistor in series with the silicon rectifier either on the input side, between the AC supply and the rectifier, or on the output side between the rectifier and the first filter capacitor. The value of this resistor will depend on the required reduction in the DC output voltage and on the DC load current of the equipment. This value may be determined experimentally or calculated from the equation:

$$R = \frac{E}{I}$$

where R is the required resistance in ohms, E the required reduction in DC output voltage in volts and I the DC load current in amperes.

The wattage rating of the resistor should be at least 2 X EI (in no case less than 10 watts).

## SOLDERING PRECAUTIONS

Extreme care should always be used in making solder connections to semiconductors. Momentary application of excessive heat, or even prolonged application of a properly heated soldering tool to a semiconductor lead or terminal, can permanently damage the device. Observe the following precautions in soldering a semiconductor lead or terminal:

1. Solder as far as possible from the body of the semiconductor.

2. Never apply heat or molten solder to a lead or terminal for longer than 10 seconds or at a point closer than 1/16 inch to the body of the device.

3. Use a low voltage iron (30 watts or less) specifically intended for use with transistors or miniature circuit components.

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4. Keep the surfaces to be soldered clean and the tip of the soldering tool adequately tinned so that the connection can be made as quickly as possible.

5. Always use a heat sink on the lead when soldering. Gripping the lead or terminal with long-nose pliers between the solder connection and case or body allows the pliers to act as a heat sink, conducting heat away from the internal elements of the device.

## ABOUT CASE DIMENSIONS

In some instances, the case of an ARCHER Semiconductor may be slightly taller or thicker than that of the original device or have a slightly different shape, particularly if the original device is a foreign type not made to U.S.A. EIA (JEDEC) standards. These mechanical differences should not affect the performance of the equipment in which the replacement is made and normally will not prevent or complicate the installation of the ARCHER replacement device.

You should realize that cross-reference substitution listings are created based **on electrical parameters (not necessarily on mechanical size or type)**. Thus, when you make substitutions based on our listings, check for physical/mechanical compatibility. If space is limited, it would be a good idea to check physical dimensions as well as electrical specs before making substitution.

## GENERAL PRECAUTIONS

ARCHER transistor and ARCHER semiconductors should not be inserted or withdrawn from circuits with the power on, because transient currents may cause permanent damage to the device. In some cases ARCHER semiconductors are in metal cans and thus could possibly become shock hazards if they are allowed to operate at a voltage appreciably above or below ground potential.

For the most effective protection, a power transistor should be operated with an adequate heat sink and with the lowest value of resistance or impedance in the emitter-to-base circuit consistent with driving signal considerations. The transistor should be protected against extremely high collector voltage pulses which may be generated when the device is operated with inductive loads particularly when current transients are present.

When replacing a power transistor or rectifier which is attached to the equipment chassis, or to a special heat sink, observe the following precautions:

A. In the case of oxide coated metal washers or wafers, which are frequently used as electrical insulators between the cases of power transistors and the chassis or heat sink, it is important not to scratch, chip or otherwise damage the oxide surface.

B. When installing an ARCHER power transistor, where a mica or oxide coated metal washer was used to insulate the case of the original device electrically from the case, apply a thin coating of Heat Sink Compound (Radio Shack Number 276-1372) between the washer and the chassis or heat sink.

## TESTING A TRANSISTOR

Before replacing a transistor you want to be sure it needs to be replaced. Always check the entire circuitry to be sure the transistor requires replacement.

The best method for checking transistors is to use a good transistor checker (dynamic in-circuit and out-of-circuit type). However, a sensitive VOM can give you a good indication of the quality of the device.

### I. In-Circuit Testing

A. First, check to see if the emitter-base junction is forward-biased. An NPN transistor should show the base 0.2 to 0.65 volts positive with respect to the emitter (approximately 0.25 volts for a germanium type and 0.6 volts for silicon). A PNP transistor should show the base 0.2 to 0.65 volts negative with respect to the emitter (0.25 volts for germanium and 0.6 volts for silicon).

B. Check to see if the device is functioning as an amplifier. Short the emitter-base junction to remove forward bias. Voltage at the collector lead should rise to approximately the potential of the collector supply buss line. Any difference is caused by ICES (collector-to-base leakage current). The closer the collector voltage approaches the buss line, the lower ICES is and the better the transistor.

### II. Out-of-Circuit Testing

Again, for the best indication of transistor quality, use a good transistor checker. However, an ohmmeter can be used as described here.

Before using the ohmmeter, find out which polarity of the internal ohmmeter battery is connected to which test lead (not all ohmmeters have the + battery polarity connected to the red lead and the - battery polarity connected to the black lead). To determine the polarity of the leads when using the ohmmeter function, use an external voltmeter or study the schematic of your VOM.

Also, remember that in most transistor circuits you are dealing with low voltages and currents (in some cases, very low). Therefore, **NEVER** use RX1 scale (extensive currents can flow through a junction, permanently damaging the transistor). It is best to determine the maximum amount of current available in each resistance range before using an ohmmeter for testing semiconductor junctions.

After you have evaluated your VOM for the above and are sure you will not damage a transistor (with excessive current or voltage in any given ohmmeter range), proceed as follows:

## A. Small Signal PNP Germanium Transistors
1. Connect the positive lead of your ohmmeter to the emitter. Connect the negative lead to the base. You should read 200-500 ohms.
2. Connect the negative lead to the collector. You should read 10K-100K. Shorting collector base, the resistance should decrease.

## B. Small Signal NPN Germanium Transistors
**Reverse the polarity of the leads;** the readings should be approximately the same.

## C. Power PNP Germanium Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 35-50 ohms.
2. Connect the negative lead to the collector. The reading should be several hundred ohms. Shorting collector to base, the resistance should decrease.

## D. Power NPN Germanium Transistors
**Reverse the polarity of the leads;** the reading should be approximately the same.

## E. Small Signal PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 1K-3K.
2. Connect the negative lead to the collector. The reading should be very high (may show as an "open").

## F. Small Signal NPN Silicon Transistors
**Reverse the polarity of the leads;** the readings should be approximately the same.

## G. Power PNP Silicon Transistors
1. Connect the positive lead to the emitter. Connect the negative lead to the base. The reading should be 200-1K.
2. Connect the negative lead to the collector. The reading should be about 1 megohm or more.

## H. Power NPN Silicon Transistors
**Reverse the polarity of the leads;** the readings should be approximately the same.

The resistance readings noted above can only be approximate; as long as you obtain somewhat **proportionate** readings (emitter-base readings as compared to emitter-collector), you can safely assume the transistor is OK.

# HANDLING OF INTEGRATED CIRCUITS

Because MOS devices have extremely high input resistance, they are susceptible to damage when exposed to static electrical charges (even electrical charges that normally build up on the human body can cause damage). To avoid possible damage to the devices during handling, testing, or actual operation, the following procedures shoud be observed:

1. Except when being tested or in actual operation, the leads of devices should be in contact with a conductive material, to avoid build-up of static charge.

2. Soldering iron tips, tools, metal parts of fixtures and handling facilities should be grounded.

3. Transient voltages may cause permanent damage to the device if it is removed, or inserted, with the power on.

4. Do not apply signals to the inputs with the power supply off.

5. All unused input leads must be connected to either Vss or VDD whichever is appropriate for the logic circuit involved.

# DIODES AND RECTIFIERS
## GENERAL PURPOSE DIODES RATINGS @ 25°C

| Catalog Number | PIV (min) V | If A | Ir (max) @ Vr μA | Vf (max) @ If V | Case Style |
|---|---|---|---|---|---|
| 276-1101 | 50 | 1.0 | 10 | 1.6 | DO41 |
| 276-1102 | 200 | 1.0 | 10 | 1.6 | DO41 |
| 276-1103 | 400 | 1.0 | 10 | 1.6 | DO41 |
| 276-1104 | 600 | 1.0 | 10 | 1.6 | DO41 |
| 276-1114 | 1000 | 2.5 | 200 | 1.0 | A1vm |
| 276-1122 | 75 | .010 | .25 | 1 | A1 |
| 276-1123 | 60 | .085 | 15 | 1 | A1 |
| 276-1141 | 50 | 3.0 | 500 | 1.2 | A3q |
| 276-1142 | 100 | 3.0 | 500 | 1.2 | A3q |
| 276-1143 | 200 | 3.0 | 500 | 1.2 | A3q |
| 276-1144 | 400 | 3.0 | 500 | 1.2 | A3q |

## ZENER DIODES—1 Watt

| Catalog Number | Vz Volts + 15% @ mA | Iz @ mA | Zz @ Iz ohms max | Case Style |
|---|---|---|---|---|
| 276-561 | 6.2 | 41 | 2 | A1 ay |
| 276-562 | 9.1 | 25 | 7 | A1 ay |
| 276-563 | 12.0 | 21 | 9 | A1 ay |
| 276-564 | 15.0 | 17 | 14 | A1 ay |

## BRIDGE RECTIFIERS

| Catalog Number | PIV (min) V | If (max) A | Case Style |
|---|---|---|---|
| 276-1146 | 50 | 4 | M548 |
| 276-1151 | 50 | 2 | M548 |
| 276-1152 | 100 | 2 | M532a |
| 276-1171 | 100 | 4 | M532a |
| 276-1172 | 200 | 4 | M532a |
| 276-1173 | 400 | 4 | M532a |
| 276-1180 | 50 | 6 | M532a |

# TRANSISTORS

## BIPOLAR

| Catalog Number | Direct Commercial Equivalent | Mat. | Appli. | Polarity | Power Diss. @ 25°C Free Air | $f_T$ Typical MHz | $V_{CBO}$ V | $V_{CEO}$ V | $V_{EBO}$ V | $I_C$ Max | $I_B$ Max | $h_{FE}$ | @$V_{CE}$ V | @$I_C$ mA | $I_{CBO}$ at max $V_{CB}$ | Case style |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 276-2001 | 2N1304 | G | S | NPN | 150mW | 5 | 25 | 25 | 25 | 300mA | | 150 | 1 | 10 | 6µA | TO5 |
| 276-2002 | 2SD187 | G | L.L. | NPN | 200mW | — | 25 | — | | 150mA | | 150 | 15 | 30 | 15µA | TO1 |
| 276-2003 | 2SA221 | G | G.P. | PNP | 50mW | 50 | 20 | — | 1.5 | 1.5 mA | | 75 | 6 | 1 | 12µA | TO44 |
| 276-2004 | 2SB22/ORN | G | G.P. | PNP | 170mW | — | 25 | — | 25 | 75mA | | 95 | 1.5 | 30 | 15µA | TO1 |
| 276-2005 | 2SB22/YEL | G | G.P. | PNP | 150mW | — | 25 | — | 1.5 | 200mA | | 135 | 1.5 | 30 | 15µA | TO1 |
| 276-2006 | 2SB407 | G | P. | PNP | 30W | 0.35 | 30 | 30 | 10 | 7A | | 80 | 1.5 | 1A | 500µA | TO3 |
| 276-2007 | 2N1305 | G | S. | PNP | 150mW | 5 | 30 | — | 25 | 300mA | | 130 | 1 | 10 | 6µA | TO5 |
| 276-2008 | SE7056 | S | H.V. | NPN | 1W | 50 | 300 | 300 | 7 | 30mA | | 40 | 20 | 30 | 100nA | TO92+ |
| 276-2009 | MPS2222A | S | G.P. | NPN | 500mW | 300 | 75 | 40 | 6 | 800mA | | 50 | 10 | 1 | 10nA | TO92 |
| 276-2010 | PN2484 | S | L.L. | NPN | 360mW | 15 | 60 | 60 | 6 | 50mA | | 250 | 5 | 1 | 10nA | TO92 |
| 276-2011 | MPS918 | S | RF/IF | NPN | 200mW | 600 | 30 | 15 | 3 | 50mA | | 20 | 1 | 3 | 10nA | TO92 |
| 276-2012 | MPSA42 | S | H.V. | NPN | 800mW | 30 | 300 | 300 | 7 | 150mA | | 35 | 25 | 30 | 50nA | TO92 |
| 276-2013 | 2N5210 | S | G.P. | NPN | 350mW | 30 | 50 | 50 | 4.5 | 50mA | | 250 | 5 | 1 | 50nA | TO92 |
| 276-2014 | MPS3704 | S | G.P. | NPN | 360mW | 100 | 50 | 30 | 5 | 800mA | | 100 | 2 | 50 | 50nA | TO92 |
| 276-2015 | TI386 | S | RF/IF | NPN | 250mW | 600 | 30 | 20 | 4 | 50mA | | 40 | 10 | 2 | 100nA | TO92 |
| 276-2016 | MPS3904 | S | S. | NPN | 350mW | 300 | 60 | 40 | 6 | 200mA | | 100 | 10 | 1 | 50nA | TO92 |
| 276-2017 | TIP31 | S | P. | NPN | 40W | 3 | 40 | 40 | 5 | 3A | 1A | 10-50 | 4 | 3A | 300µA | TO220 |
| 276-2018 | TIP29 | S | P. | NPN | 40W | 3 | 40 | 40 | 5 | 1A | 400M | 15 | 4 | 1A | 300µA | TO220 |
| 276-2019 | TIP33 | S | P. | NPN | 90W | 3 | 40 | 40 | 5 | 10A | 3A | 20 | 4 | 3A | 700µA | TO220 |
| 276-2020 | TIP3055 | S | P. | NPN | 90W | 3 | 100 | 70 | 7 | 15A | 7A | 20 | 4 | 4A | 1mA | TO220 |
| 276-2021 | MPS3640 | S | RF/IF | PNP | 350mW | 500 | 12 | 12 | 4 | 80mA | | 30 | 0.3 | 10 | 10nA | TO92 |
| 276-2022 | 2N5087 | S | L.L. | PNP | 350mW | 40 | 50 | 50 | 3 | 50mA | | 250 | 5 | 1 | 50nA | TO92 |
| 276-2023 | MPS2907 | S | S. | PNP | 400mW | 200 | 60 | 25 | 5 | 600mA | | 50 | 10 | 1 | 20nA | TO92 |
| 276-2024 | MPS3702 | S | G.P. | PNP | 360mW | 100 | 40 | 25 | 5 | 200mA | | 60 | 5 | 50 | 0.5µA | TO92 |
| 276-2025 | TIP32 | S | P. | PNP | 40W | 3 | 40 | 46 | 5 | 3A | 1A | 10-50 | 4 | 3A | 200µA | TO220 |
| 276-2026 | TIP30 | S | P. | PNP | 40W | 3 | 40 | 40 | 5 | 1A | 400M | 15 | 4 | 1A | 300µA | TO220 |
| 276-2027 | MJE34 | S | P. | PNP | 90W | 3 | 40 | 40 | 5 | 10A | 3A | 20-100 | 4 | 3A | 200µA | TO220 |
| 276-2030 | 2N3053 | S | P. | NPN | 1W | 100 | 60 | 40 | 5 | 700mA | | 50 | 10 | 150 | — | TO92+ |
| 276-2031 | MPS3565 | S | G.P. | NPN | 200mW | 40 | 30 | 25 | 6 | 50mA | | 120 | 5 | 1 | 50nA | TO92 |
| 276-2032 | MPS3638 | S | RF/IF | PNP | 600mW | 100 | 25 | 25 | 4 | 500mA | | 30 | 3 | 10 | 100nA | TO92 |
| 276-2033 | MPS3704 | S | S. | NPN | 350mW | 200 | 60 | 30 | 5 | 500mA | | 100 | 10 | 150 | 50nA | TO92 |
| 276-2034 | MPS3906 | S | S. | PNP | 350mW | 250 | 40 | 40 | 5 | 200mA | | 100 | 10 | 1 | 50nA | TO92 |
| 276-2038 | 2N3866 | S | RF. | NPN | 1W | 500 | 60 | 30 | 3.5 | 400mA | | 100 | 5 | 50 | 100µA | TO39 |
| 276-2039 | 2N6569 | S | P | NPN | 100W | 15 | 45 | 40 | 5 | 12A | 5A | 100 | 4 | 1A | — | TO3 |
| 276-2040 | 2N6594 | S | P | PNP | 100W | 15 | 45 | 40 | 5 | 12A | 5A | 100 | 4 | 4A | — | TO3 |
| 276-2041 | 2N3055 | S | P | NPN | 115W | 2.5 | 100 | 60 | 7 | 15A | 7A | 50 | 4 | 1A | — | TO3 |
| 276-2042 | 2N6576 | S | P | NPN | 120W | — | 60 | 60 | 7 | 15A | .25A | 20,000 | 3 | 4A | — | TO3 |
| 276-2043 | MJ2955 | S | P | PNP | 150W | 4 | 100 | 60 | 7 | 15A | 7A | 70 | 10 | .5 | — | TO3 |

NOTE: All ratings given are for 25°C except where otherwise noted.

MATERIAL:
S—Silicon; G—Germanium

APPLICATION:
S—Switch
G.P.—General purpose
L.L.—Low Level
P—Power amp/switch
RF—RF power
H.V.—High voltage

## FIELD EFFECT

| Catalog Number | Direct Commercial Equivalent | Circuit Application | N Channel | P Channel | Max. Power Diss. mW | $V_{dss}$ V (max) | $V_{gss}$ V (max) | $g_{fs}$ mhos min/max | Case Style |
|---|---|---|---|---|---|---|---|---|---|
| 276-2028 | 2N3821 | small signal VHF mixer and AMP | X | | 330 | 50 | 50 | 1.5m/4.5m | TO92 |
| 276-2035 | 2N3819 | small signal general purpose | X | | 360 | 25 | 25 | 2.0n/6.5m | TO92 |
| 276-2036 | 2N3823 | RF Amp to 200 MHz | X | | 300 | 30 | 30 | 3.5m/6.5m | TO72 |
| 276-2037 | 2N5460 | general purpose small signal | | X | 310 | | 40 | 1.0m/4.0m | TO92 |

NOTE: All parameters are at 25°C.

## UNIJUNCTION

| Catalog Number | Direct Comm. Equivalent | Max Power Diss. | $r_{BB}$ (max) | $\eta$ (max) | $V_{EB1}$ (sat) | $V_{OB1}$ (min) | $I_p$ (max) | Case Style |
|---|---|---|---|---|---|---|---|---|
| 276-2029 | MU4891 | 360mW | 9.1K | 0.82 | 4.0V | 3.0V | 5.0µA | X55 |

## 276-026
## 276-040

# LIGHT EMITTING DIODE

## GENERAL DESCRIPTION

These devices are large area light sources which contain diffusing particles in the plastic encapsulant. When the device on "ON", it appears as a large, soft light source, making it ideally suited for front panel applications.

## FEATURES

- The 276-040 LED (light emitting diode) is contained in a black case, giving excellent contrast when "ON".
- The 276-026 is a red LED Lamp with a frosted diffused lens.

## APPLICATIONS

- Pilot lamps
- Indicator lamps
- Optical coupling

## PIN CONNECTION



BOTTOM VIEW

OPEN

ANOOE     CATHOOE

All Leads Electrically Isolated From Case.

## RADIANT CHARACTERISTICS IF=20mA (25°C) (276-026)

Luminous Intensity.................................................................0.3 mcd
Luminous Flux..................................................... 1.35 mlumen
Wavelength @ Peak .......................................... 650 nM
Spectral Line Width............................................ 25 nM
Rise and Fall Time.............................................. 10 ns
Angle of Half Intensity ...................................... 35 degrees
Angle of 0.1 Intensity........................................ 35 degrees

## ABSOLUTE MAXIMUM RATINGS

Forward DC Current.................................................................50 mA
Reverse Voltage (276-026) ........................................3 Volts
Reverse Voltage (276-040) .........................................4 Volts
Power Dissipation-Derate 1.3 W/°C above 25°C............................ 100 mW
Storage Temperature....................................... -40°C to 100°C
Operating Temperature........................................-40°C to 100°C
Relative Humidity @ 65°C........................................................98%
Solder Temperature for 5 seconds.............250°C @ 0.1" from Seating Plane
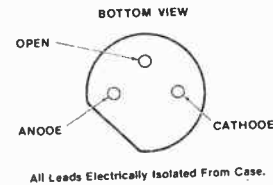
## 276-041
## 276-047

# LIGHT EMITTING DIODE

## GENERAL DESCRIPTION

These devices are Jumbo LED's with diffused lens, IC compatable-gallium arsenide phosphide (GaAsP) solid state devices. The 276-041 is a red LED lamp.

## APPLICATIONS

- Pilot lamps
- Indicator lamps
- Optical coupling

## PIN CONNECTION



BOTTOM VIEW

ANODE     CATHODE

## OPERATING SPECIFICATIONS (TA @ 25°C)

Forward Voltage ....................................................... 1.75 V (typ)
Light Intensity @ 20 mA.... ...........................................1.0 mcd (typ)
Lead Temperature (Soldering, 5 sec)........................................260°C

## ABSOLUTE MAXIMUM RATINGS (TA @ 25°C)

Forward dc current............................................................70 mA
Reverse voltage ........................................................3.0 V
Power dissipation ................................................... 140 mW
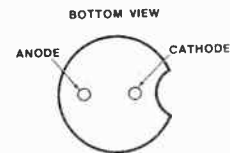
# LIGHT EMITTING DIODE    276-042

## GENERAL DESCRIPTION

Subminiature, red LED lamp with a diffused lens. Emits bright light with solid state reliability; is compatible with most TTL and DTL Circuits.

## APPLICATIONS

- Visual indicators
- Built in diagnostics

## OPERATING SPECIFICATIONS

Forward Voltage ........................................................................... 1.6 V
Reverse Current ........................................................................... 0.1 μA

## ABSOLUTE MAXIMUM RATINGS

Reverse Voltage .......................................................................... 3.0 V
Forward Current .......................................................................... 40 mA

## PIN CONNECTION

BOTTOM VIEW

ANGDE        CATHOOE

---
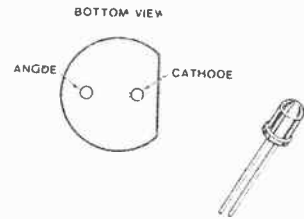
# 0.3" SOLID STATE SEVEN SEGMENT DISPLAY

276-053
276-062
276-1210
276-1211

## GENERAL DESCRIPTION

The 276-053 and 276-1210 are common anode LED numeric displays. The 276-062 and 276-1211 are common cathode LED numeric displays. The large 0.3" high character size generates a bright, continuously uniform 7 segment display. Designed for viewing distances of up to 10 feet, this single digit display has been human engineered to provide a high contrast ratio and wide viewing angle.
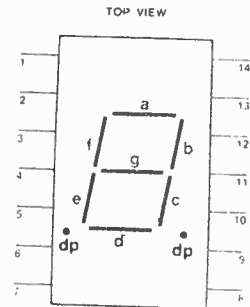
## FEATURES

- Fits 14 Pin DIP Socket
- Excellent Character Appearance - Continuous Uniform Segments; Wide Viewing Angle; High Contrast
- IC Compatible - 1.6 V per Segment
- Standard 0.3" DIP Lead Configuration; PC Board or Standard Socket Mountable
- Categorized for Luminous Intensity - Assures Uniformity of Light Output from Unit to Unit within a Single Category

## APPLICATIONS

- Electronic Calculators
- TVs
- Radios
- Credit card verifiers
- Digital clocks

## RADIANT CHARACTERISTICS (IF=20mA) TA=25°C

Luminous Intensity ........................................................................ 250 μcd
Wavelength (Peak) ........................................................................ 655 nM

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation $T_A$ = 25°C ....................................................... 400 mW
Operating Temperature Range ........................................... -20°C to 85°C
Storage Temperature Range ............................................. -20°C to 85°C
Average Forward Current/Segment or Decimal Pt. $T_A$ = 25°C ........... 25 mA
Peak Forward Current/Segment or Decimal Pt. $T_A$ = 25°C (Pulse Duration 500 us) ...................................................................... 150 mA
Reverse Voltage/Segment or Decimal Pt. ....................................... 6 V
Max. Solder Temperature 1 16" Below Seating Plant (t≤5 sec.) .......... 230°C

## PIN CONNECTION

TOP VIEW

| 276-053 and 276-1210 COMMON ANODE | |
|---|---|
| PIN | FUNCTION |
| 1 | CATHODE a |
| 2 | CATHODE f |
| 3 | ANODE |
| 4 | NO PIN |
| 5 | NO PIN |
| 6 | CATHODE dp |
| 7 | CATHODE e |
| 8 | CATHODE d |
| 9 | NO CONNECTION |
| 10 | CATHODE c |
| 11 | CATHODE g |
| 12 | NO PIN |
| 13 | CATHODE b |
| 14 | ANODE |

| 276-062 and 276-1211 COMMON CATHODE | |
|---|---|
| PIN | FUNCTION |
| 1 | ANODE a |
| 2 | ANODE f |
| 3 | CATHODE |
| 4 | NO PIN |
| 5 | NO PIN |
| 6 | ANODE dp |
| 7 | ANODE e |
| 8 | ANODE d |
| 9 | NO CONNECTION |
| 10 | ANODE c |
| 11 | ANODE g |
| 12 | NO PIN |
| 13 | ANODE b |
| 14 | CATHODE |

| ALTERNATE CONNECTION | |
|---|---|
| PIN | FUNCTION |
| 1 | NO PIN |
| 2 | ANODE |
| 3 | CATHODE-f |
| 4 | CATHODE-g |
| 5 | CATHODE-e |
| 6 | CATHODE-d |
| 7 | NO PIN |
| 8 | NO PIN |
| 9 | ANODE |
| 10 | CATHODE-dp |
| 11 | CATHODE-c |
| 12 | CATHODE-b |
| 13 | CATHODE-a |
| 14 | NO PIN |

| ALTERNATE CONNECTION | |
|---|---|
| PIN | FUNCTION |
| 1 | NO PIN |
| 2 | CATHODE |
| 3 | ANODE f |
| 4 | ANODE g |
| 5 | ANODE e |
| 6 | ANODE d |
| 7 | NO PIN |
| 8 | NO PIN |
| 9 | CATHODE |
| 10 | ANODE dp |
| 11 | ANODE c |
| 12 | ANODE b |
| 13 | ANODE a |
| 14 | NO PIN |

9

## 276-056
## 276-066
# 0.6" SEVEN SEGMENT NUMERIC DISPLAY

## GENERAL DESCRIPTION

These devices are single digit numeric displays. They are compatible with bipolar and MOS IC's. They provide fast switching - excellent for multiplexing - and the 0.6 inch character height provides a viewing distance up to 25 feet. The 276-056 is common anode. The 276-066 is common cathode.

## APPLICATIONS

- Digital clocks
- Elevator floor indicators
- Panel meters
- Calculators
- TV channel indicators

## ABSOLUTE MAXIMUM RATINGS

Power Dissipation $T_A$ = 25°C ..................... 960mW
Power Derate Factor from 25°C ..................... −6.6 mW/°C
Storage and Operating Temperature ..................... 0°C to 85°C
DC Current/Segment or DP, $T_A$ = 25°C ..................... 30 mA
Average Current/Segment or DP, $T_A$ = 25°C ..................... 25 mA
Peak Current/Segment or DP, $T_A$ = 25°C ..................... 250 mA
Reverse Voltage/Segment ..................... 6.0 V
Solder Temperature 1/16" below Seating Plane, t≤5 seconds ..................... 240°C

## TYPICAL CHARACTERISTICS

### Light Intensity vs Ambient Temperature



### Forward Current vs Forward Voltage



ALL SEGMENTS PULSED 0.7ms
PULSE WIDTH 10% DUTY CYCLE

## PIN CONNECTION

TOP VIEW
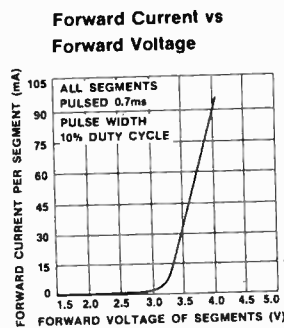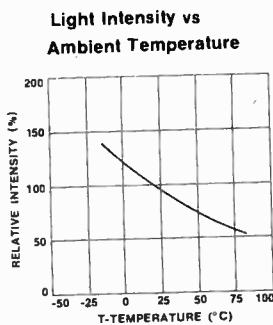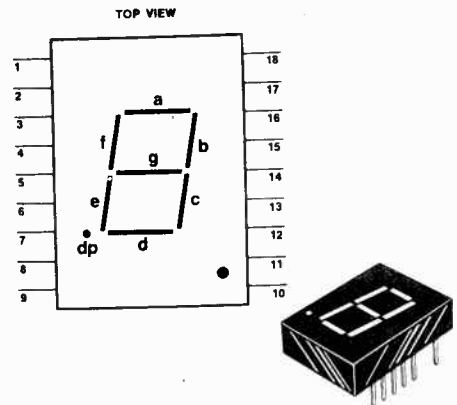


| 276-056 | |
|---|---|
| PIN | FUNCTION |
| 1 | NO PIN |
| 2 | CATHODE - a |
| 3 | CATHODE - f |
| 4 | ANODE* |
| 5 | CATHODE - e |
| 6 | ANODE* |
| 7 | CATHODE - dp |
| 8 | NO PIN |
| 9 | NO PIN |
| 10 | NO PIN |
| 11 | CATHODE - d |
| 12 | ANODE* |
| 13 | CATHODE - c |
| 14 | CATHODE - g |
| 15 | CATHODE - b |
| 16 | NO PIN |
| 17 | ANODE* |
| 18 | NO PIN |

*Common redundant anodes.

| 276-066 | |
|---|---|
| PIN | FUNCTION |
| 1 | NO PIN |
| 2 | ANODE - a |
| 3 | ANODE - f |
| 4 | CATHODE* |
| 5 | ANODE - e |
| 6 | CATHODE* |
| 7 | ANODE - dp |
| 8 | NO PIN |
| 9 | NO PIN |
| 10 | NO PIN |
| 11 | ANODE - d |
| 12 | CATHODE* |
| 13 | ANODE - c |
| 14 | ANODE - g |
| 15 | ANODE - b |
| 16 | NO PIN |
| 17 | CATHODE* |
| 18 | NO PIN |

*Common redundant cathodes.

## 276-115
# SELENIUM SOLAR CELL

## GENERAL DESCRIPTION

The selenium solar cell is a device that can change the energy of the sun into electrical energy for use in your electronic projects. It can be used in place of the battery or it can be used as a light sensor. It produces .5 V at .6 ma in strong sunlight which is enough to power small radios and oscillator circuits. The unit is sensitive to the same range of light as the human eye.

## CONNECTION



## FEATURES

- Dimensions ..................... 1-1/2" x 1-1/8"
- Sensitive Area ..................... 1.875 in.
- Lead Type ..................... Flexible wire
- Weight ..................... 1.5 gms.

## PHOTOELECTRIC CHARACTERISTICS

Max. Voltage Output ..................... .5 V
Max. Current Output ..................... .6 ma
Output at 100 Lux (3K load) ..................... 50 µA
Output at 500 Lux (3K load) ..................... 90 µA
Peak Spectral Response ..................... 5,500 Angstroms
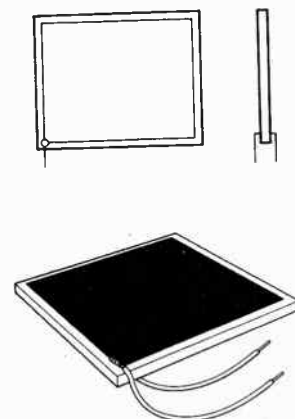
# CADMIUM SULPHIDE PHOTOCELL  276-116

## GENERAL DESCRIPTION

A cadmium sulphide photo cell is a light variable resistor which is most sensitive in the green to yellow portion of the light spectrum. With it you can use light to control many electronic devices. Max. resistance .5 meg., min. resistance 100 ohms, max. voltage 170 V, max. wattage .2 watts, rugged epoxy case.

## PIN CONNECTION

BOTTOM VIEW

## APPLICATIONS

- Night light
- Light control
- Burglar alarm
- Relay

## FEATURES

- Shape ...................................................................... Round
- Sensitive Area ........................................................ .07 sq. in.
- Weight ................................................................... 1.56 gms.
- Resistance at 1 Ftc (2870°K) .................................. 1.7k Ohms . 40%
- Typical Resistance 100 Ftc (2870°K) ....................... 100 Ohms
- Resistance Dark Minimum (1 Minute) ...................... 0.5 Megohms

## ABSOLUTE MAXIMUM RATINGS

Max. Applied Voltage (ac or dc) .................................. 170 V peak
Max. Power dissipation at 25°C .................................. 2 watts
Power derating .................................... Linearly to 0 @ 75°C
Operating Temp. range ...................................... -40°C to 75°C
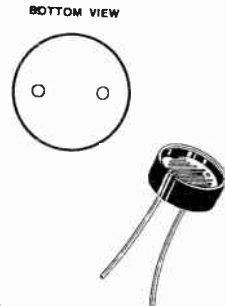
# SILICON SOLAR CELL  276-120  276-128

## GENERAL DESCRIPTION

The silicon solar cell is a device that can change the energy of the sun into electrical energy for use in your electronic projects. It can be used in place of a battery, or it can be used as a light sensor.

## APPLICATIONS

- Solar-powered battery charger
- Power Radio Circuits
- Use several in series or parallel for added power.

## FEATURES

- Dimensions (276-120) ....................................... 2cm x 4cm
- Dimensions (276-128) ....................................... 2cm x 2cm

## PHOTOELECTRIC CHARACTERISTICS

Max Voltage output ............................................... 0.5V
Max Current output (276-120) ................................ 100mA
Max Current output (276-128) ................................ 60mA
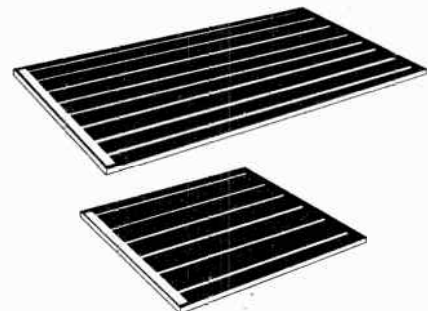
# SILICON PHOTOTRANSISTOR  276-130

## GENERAL DESCRIPTION

The 3 terminal phototransistor has exceptionally stable characteristics and high illumination sensitivity. The electrically connected base lead increases its applicability to various circuit designs. It features low leakage, low power, requirements, TTL/DTL compatibility, a large range of sensitivities and minimal response time.

## PIN CONNECTION

BOTTOM VIEW

BASE

EMITTER     COLLECTOR

BASE

EMITTER     COLLECTOR

## ABSOLUTE MAXIMUM RATINGS

Maximum Temperatures/Humidity
Storage Temperature .......................................... -55°C to 100°C
Operating Junction Temperature ......................... -55°C to 85°C
Relative Humidity at Temperature .......................... 98% at 65°C
Maximum Power Dissipation
Total Dissipation at 25°C Case Temperature ............. 200 mW
                    at 25°C Ambient Temperature ........... 100 mW
Maximum Voltages
$V_{CBO}$ Collector to Base Voltage ............................ 50 Volts
$V_{CEO}$ Collector to Emitter Sustaining Voltage ............ 30 Volts
Maximum Current
$I_C$ Collector Current ........................................... 25 mA
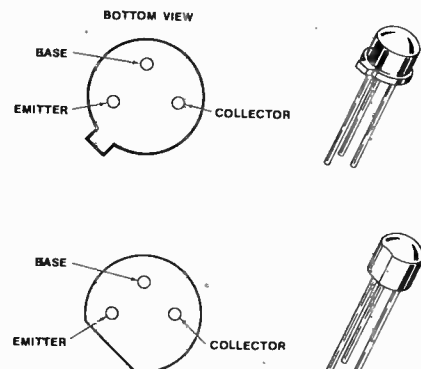
The base lead is for testing only, it is not used in normal applications.

| 276-1095 | ## 1.6 AMP LIGHT ACTIVATED SILICON CONTROLLED RECTIFIER (LASCR) |

### GENERAL DESCRIPTION

The Light Activated Silicon Rectifier (LASCR) is sensitive to both visible and invisible light; light sensitivity up to 200 ft. candles.

### APPLICATIONS

- On time Switch • Optical switch • Counting Circuits • Delay Circuits
- Phase Control

### ABSOLUTE MAXIMUM RATINGS

Peak Inverse Voltage ............................................................................. 200 V
Maximum End Current ............................................................................ 1.6 amps
Light Sensitivity ........................................................................ 200 Ft. Candles
Gate Firing Current ................................................................................ 30 µA

**PIN CONNECTION**

BOTTOM VIEW

GATE
CATHODE    ANODE

---
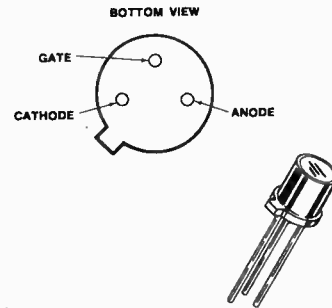
| 276-1201
276-1202 | ## CLOCK DISPLAY BOARD  4-.5" Digits with Colon |

### GENERAL DESCRIPTION

These devices 276-1201, 276-1202 are a 24 hour clock display with colon located between digits 2 and 3. This is a direct drive display consisting of 4 digits, for hours and minutes, separated by a colon. It also has AM/PM indicator in the upper left hand corner.

**PIN CONNECTION**

TOP VIEW
AM/PM INDICATOR    COLON
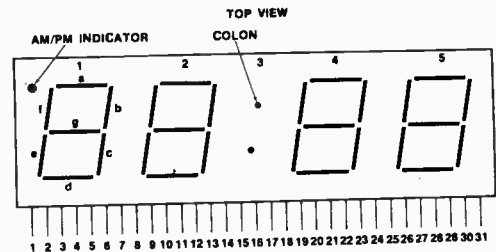
### ABSOLUTE MAXIMUM RATINGS

ELECTRICAL DATA
Segment Light Intensity............................................100 - .250 mcd (min - typ)
Segment Forward Voltage ................................................1.7 - 2.0 V (typ max)
Reverse Voltage.............................................................3.0 - 8.0 V (min - typ)
Intensity Matching ........................................................................± 33% (min)
Current per segm ..........................................................................20 mA (max)
Peak wave length............................................................660 nm (typical)

### PIN FUNCTION

**276-1201**

| Pin No | Electrical Connection | Pin No | Electrical Connection |
|--------|----------------------|--------|----------------------|
| 1 | AM/PM Indicator Cathode | 17 | Cathode F Digit 4 |
| 2 | Cathode F Digit 1 | 18 | E |
| 3 | E | 19 | D |
| 4 | D | 20 | C |
| 5 | C | 21 | G |
| 6 | G | 22 | B |
| 7 | B | 23 | A |
| 8 | A | 24 | F |
| 9 | F | 25 | E |
| 10 | E | 26 | D |
| 11 | D | 27 | C |
| 12 | C | 28 | G |
| 13 | G | 29 | B |
| 14 | B | 30 | Cathode A Digit 5 |
| 15 | Cathode A Digit 2 | 31 | Common Anode |
| 16 | Cathode Colon Digit 3 | | |

**276-1202**

| Pin No | Electrical Connection | Pin No | Electrical Connection |
|--------|----------------------|--------|----------------------|
| 1 | AM/PM Indicator Anode | 17 | Anode F Digit 4 |
| 2 | Anode F Digit 1 | 18 | E |
| 3 | E | 19 | D |
| 4 | D | 20. | C |
| 5 | C | 21 | G |
| 6 | G | 22 | B |
| 7 | B | 23 | A |
| 8 | A | 24 | F |
| 9 | F | 25 | E |
| 10 | E | 26 | D |
| 11 | D | 27 | C |
| 12 | C | 28 | G |
| 13 | G | 29 | B |
| 14 | B | 30 | Anode A Digit 5 |
| 15 | Anode A Digit 2 | 31 | Common Cathode |
| 16 | Anode Colon Digit 3 | | |

# LED DISPLAY DIGITAL ELECTRONIC CLOCK MODULE  `277-1001`

## GENERAL DESCRIPTION

Electronic Clock Module combines a monolithic MOS-LSI integrated clock circuit, 4-digit 0.5" LED display, power supply and other associated discrete components on a single printed circuit board to form a complete electronic clock movement. The user need add only a transformer and switches to construct a pretested digital clock for application in clock-radios, alarm or instrument panel clocks. Timekeeping may be from 50 or 60 Hz inputs. Direct (non-multiplexed) LED drive eliminates Rf interference. Time setting is made easy through use of "Fast" and "Slow" scanning controls.

## FEATURES

- Bright 4-digit 0.5" LED display
- Complete—add only transformer and switches
- Alarm clock and clock-radio versions
- 12 hour display format
- 50 or 60 Hz operation
- Power failure indication

- Brightness control capability
- "Sleep" and "snooze" timers
- Alarm "on" and PM indicators
- Direct drive—no RFI
- Fast and slow set controls
- Low cost, compact design

## APPLICATIONS

- Clock-radio timers
- Instrument panel clocks
- Alarm clocks
- Desk clocks
- TV-stereo timers
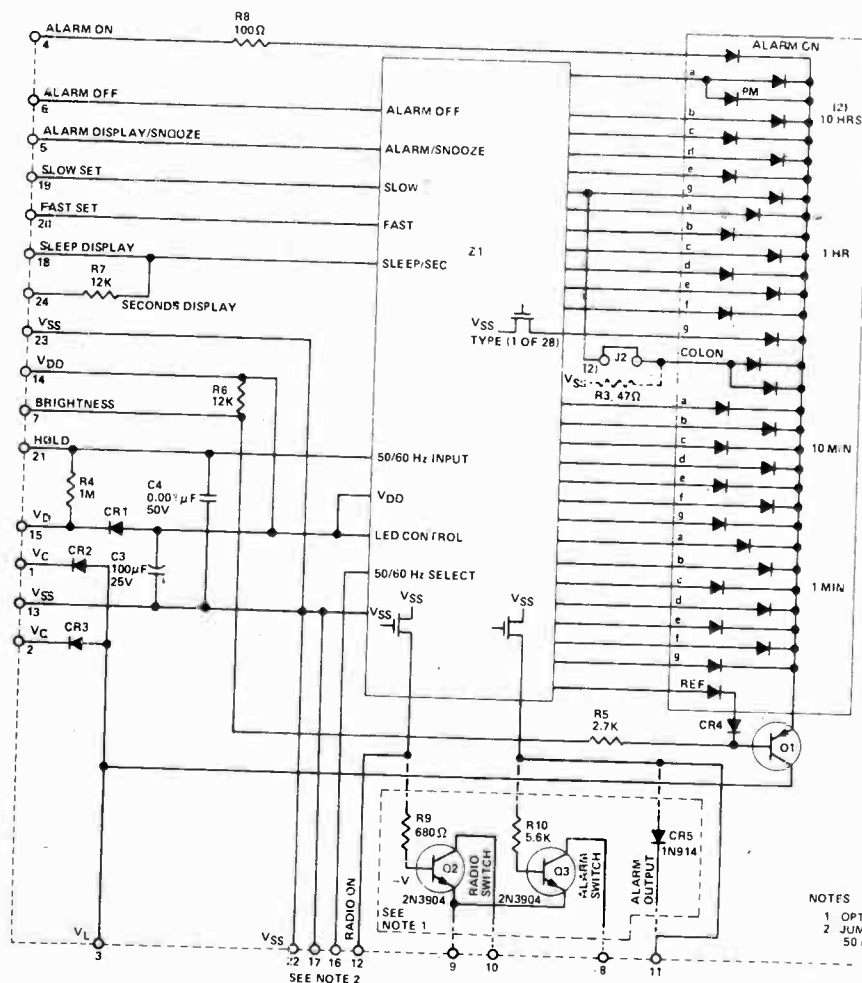
## PIN CONNECTION



## SCHEMATIC DIAGRAM
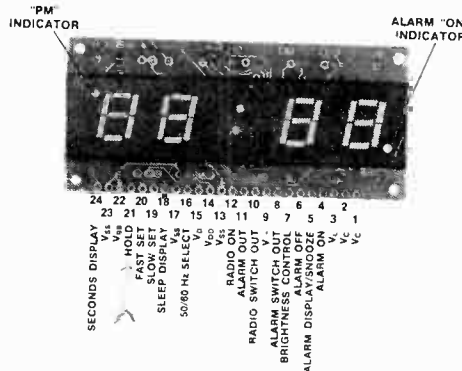
## FUNCTIONAL DESCRIPTION

### Display Modes

The 277-1001 provides four basic selectable display modes: These are summarized in Table I.

**Colon:** The display is furnished with a colon which flashes at a 1 Hz rate. If a fixed colon is desired, remove J2 and install R3 (47Ω) shown in component location diagram.

**Alarm "ON" Indicator:** Setting the alarm switch to "on" lights a dot in the lower right hand corner of the display.

**AM/PM Indicator:** PM time indication is given by a dot in the upper left hand corner of the display. Indication applies for both time and alarm display modes.

**Power Failure Indication:** Power failure is indicated by the entire display flashing at 1 Hz rate. Contact to either the FAST or SLOW time set control cancels this indication.

**Zero Blanking:** Zeroes appearing in the first digit are blanked.

### Control Functions

Setting of Time, Alarm Time, Seconds and Sleep Timer registers is accomplished by selecting the appropriate display mode and simultaneously contacting one or both of the FAST and SLOW time setting switches. This is summarized in Table II.

**Alarm On/Off Switch:** The Alarm On/Off switch is an SPDT switch—the "ON" position lights the alarm set indicator; the "OFF" position disables the alarm output latch and silences the alarm. The alarm output will continue for 59 minutes unless cancelled by the Alarm On/Off switch or inhibited by the Alarm Display/Snooze button.

**Alarm Display/Snooze Button:** This momentary switch has four functions: displays the alarm time; enables setting of alarm time (in conjunction with fast or slow-set switches); cancels the Sleep (Radio) output; and inhibits the alarm output for a period of between 8 and 9 minutes (Snooze function). The Snooze alarm feature may be used repeatedly during the 59 minute alarm enable period.

**Sleep Display/Timer Button:** A momentary contact displays the time remaining in the sleep register and enables programming the desired sleep time by simultaneously using the Fast or Slow buttons, as shown in Table II. The Sleep (Radio) output is latched on for the interval programmed, which may be up to 59 minutes. The Sleep output may be cancelled by momentarily contacting the Alarm Display/Snooze button. Resetting the time-of-day will decrement the Sleep Timer, which will not recycle past 00.

**Brightness Control:** A fixed 12K brightness control resistor is installed for minimum display brightness for night viewing. Maximum display brightness is obtained by placing a short between pins 7 and 14. This can be accomplished by addition of an external SPST switch or the insertion of a 10KΩ Pot for variable control of brightness.

### Options

**Sleep (Radio).** If a radio or appliance turn on switch is desired, resistor R9 (680 Ω) and transistor Q2 can be mounted as shown on component location diagram.

**Alarm:** If a radio alarm is desired, resistor R10 (5.6K), transistor Q3, and diode CR5 can be mounted as shown on the component location diagram.

### NOTE

Certain outputs of the 277-1001 module are directly connected to MOS device inputs. Normal precautions taken for handling of MOS devices should be applied to the handling of this module.

## TYPICAL APPLICATION

**Digital Alarm Clock**



## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Voltage—Pins 15 to 13 | 20 Vrms |
| Voltage—Pins 1, 2 to 13 | 7.0 Vrms |
| Voltage—Pins 9 to 13 | +0.3 to -26$V_{DC}$ |
| Voltage—Pins 8, 10 to 9 | 30 $V_{DC}$ |
| Operating Temperature Range | -25° to +60° |
| Storage Temperature Range | -65°C to +85°C |
| Lead Temperature (Soldering, 10 seconds) | 300°C |

## COMPONENT LOCATION



COMPONENT SIDE VIEW

OPTIONAL COMPONENT MOUNTING

**NOTE**

WITH OPTIONAL COMPONENTS Q3 AND R10 INSTALLED, THIS OSCILLATOR CIRCUIT WILL PROVIDE A TONE INTERRUPTED AT A 1 Hz RATE.

8Ω SPEAKER

ALARM OSCILLATOR (OPTIONAL)

| PART NO. | CATALOG NUMBER |
|---|---|
| 2N3904 | 276-2016 |
| CAPACITORS: | |
| 0.047 μF | 272-1052 |
| 0.47 μF | 272-1054 |
| RESISTORS | 271-1300 |
| SPEAKER | 40-245 |
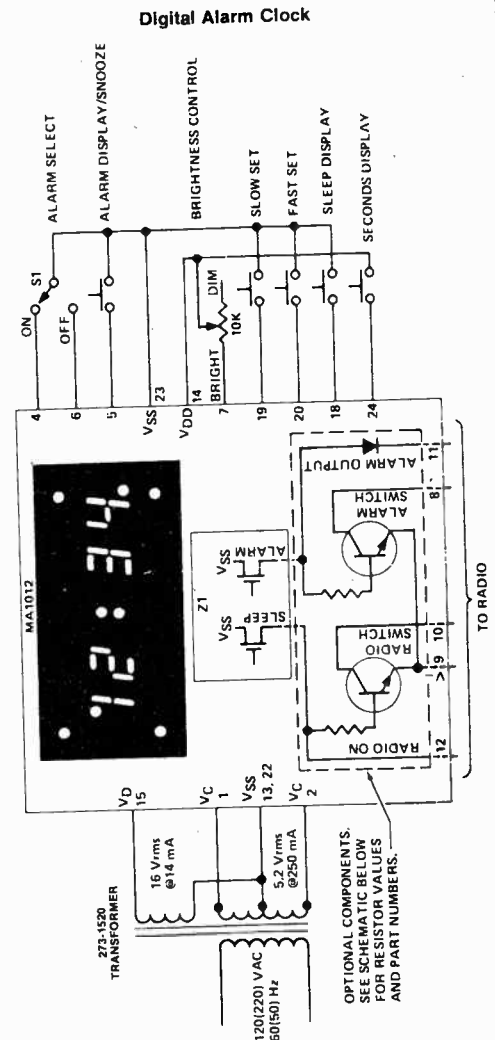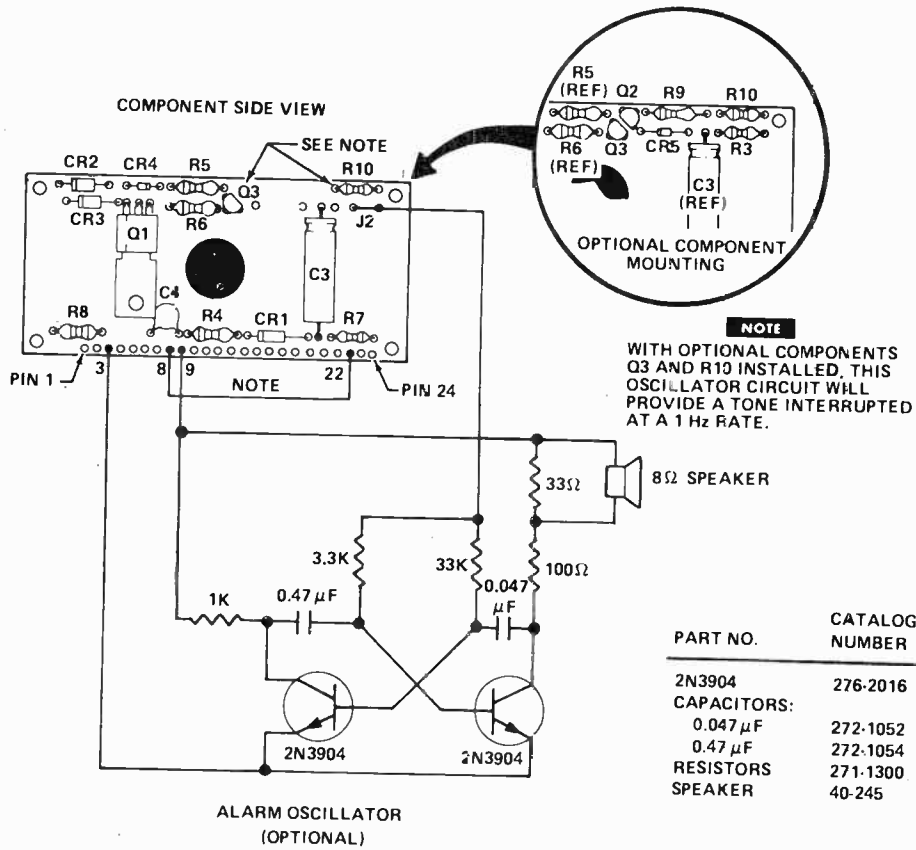
## TABLE I. DISPLAY MODES

| *SELECTED DISPLAY MODE | DIGIT NO. 1 | DIGIT NO. 2 | DIGIT NO. 3 | DIGIT NO. 4 |
|---|---|---|---|---|
| Time Display | 10's of Hours & AM/PM | Hours | 10's of Minutes | Minutes |
| Seconds Display | Blanked | Minutes | 10's of Seconds | Seconds |
| Alarm Display | 10's of Hours & AM/PM | Hours | 10's of Minutes | Minutes |
| Sleep Display | Blanked | Blanked | 10's of Minutes | Minutes |

*If more than one display mode input is applied, the display priorities are in the order of Sleep (overrides all others). Alarm, Seconds, Time (no other mode selected).

## TABLE II. CONTROL FUNCTIONS

| SELECTED DISPLAY MODE | CONTROL INPUT | CONTROL FUNCTION |
|---|---|---|
| *Time | Slow | Minutes Advance at 2 Hz Rate |
| | Fast | Minutes Advance at 60 Hz Rate |
| | Both | Minutes Advance at 60 Hz Rate |
| Alarm/Snooze | Slow | Alarm Minutes Advance at 2 Hz Rate |
| | Fast | Alarm Minutes Advance at 60 Hz Rate |
| | Both | Alarm Resets to 12:00 AM |
| Seconds | Slow | Input to Entire Time Counter is Inhibited (Hold) |
| | Fast | Seconds and 10's of Seconds Reset to Zero Without a Carry to Minutes |
| | Both | Time Resets to 12:00 AM |
| Sleep | Slow | Subtracts Count at 2 Hz |
| | Fast | Subtracts Count at 60 Hz |
| | Both | Subtracts Count at 60 Hz |

*When setting time sleep minutes will decrement at rate of time counter, until the sleep counter reaches 00 minutes (sleep counter will not recycle).

## 277-1003  12 VDC AUTOMOTIVE/INSTRUMENT CLOCK MODULE

### GENERAL DESCRIPTION

The MA-1003 $12V_{DC}$ Automotive/Instrument Clock Module combines the MM5377 monolithic MOS/LSI clock circuit, a 4-digit 0.3" green vacuum fluorescent display, a 2.097 MHz crystal and supporting components to form a complete digital clock for $12V_{DC}$ applications. The module is fully protected against automotive transients and battery reversal conditions with time-keeping maintained down to $9V_{DC}$. Automatic display brightness control logic blanks the display with ignition off, reduces brightness to 33% with park or head lamps on and follows the dash lamp dimming control setting. The display features leading zero blanking and has a blinking colon activity indicator. The bright green display color is filterable to various shades in the green, blue-green, blue and yellow color range. Time setting is accomplished by closing hours-advance and minutes-advance switches; these switches are disabled when the display is blanked to prevent tampering. Interconnections are simplified through use of a 6-pin edge connector. Display may be activated with ignition off or park (head) lights off by closing display switch, allowing minimum power consumption in portable applications.

### FEATURES

- Ideal for automotive applications
- Operates from $12V_{DC}$ supply
- Bright 0.3" green display
- Internal crystal timebase
- ±0.5 second/day accuracy
- Protected against automotive voltage transients and reversals
- Timekeeping maintained to $9V_{DC}$, memory to $6V_{DC}$
- Automatic display brightness control logic
- Display color filterable to blue, blue-green, green and yellow
- Complete—just add switches and lens
- Convenient time setting controls at a 1 Hz rate with no roll-over
- Compact size, built-in connector (optional)
- Low standby power consumption
- Lockout of time setting when display is "OFF"

### APPLICATIONS

- In-dash autoclocks
- After-market auto/recreational vehicle clocks
- Aircraft-marine clocks
- $12V_{DC}$ operated instruments
- Portable/battery powered instruments

### PIN CONNECTION



| 6 GROUND |
| 5 NC |
| 4 PARK LIGHTS |
| 3 BATTERY |
| 2 DASH LAMPS |
| 1 IGNITION |

HOURS SET SWITCH

MINUTES SET SWITCH

DISPLAY SWITCH

### FUNCTIONAL DESCRIPTION

#### DISPLAY FUNCTIONS

**Brightness Control:** The 277-1003 provides four basic selectable display brightness modes. These are summarized in table I. Note that 33% and 0% brightnesses are boundary values only. Any brightness in between is obtainable by simply varying the dash lamp input (pin 2) voltage between $V_{BAT}$ (pin 3) and GND (pin 6). Note the difference between "display blanked" and "0% brightness."

**Colon:** The 277-1003 is furnished with a colon display which flashes at a 0.5 Hz rate (one second "ON," one second "OFF"). When setting minutes, the colon blinks at a 1 Hz rate.

**Zero Blanking:** Zeros appearing in the first (tens hours) digit are blanked automatically.

#### CONTROL FUNCTIONS

**Control Inputs:** Inputs including battery, ignition, park lights, dash lamps and a respective ground are routed to the edge connector tab for easy connection/disconnection. The remaining inputs including hours set, minutes set and display "ON" are available at terminals near the edge of the PC board for facilitating "on board" switch contacts or external switches (user supplied). See Pin Connection diagram.

**Battery Input (Pin 3):** This input powers the MOS clock circuit only and insures timekeeping above $9V_{DC}$. The input is protected against battery reversals, excessive current and transient overvoltages.
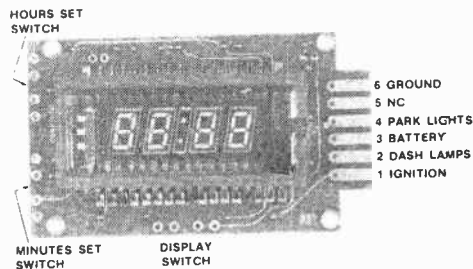
**Ignition Input (Pin 1):** This input enables setting of the clock using the hours and minutes set inputs, enables the display to display time of day information and enables the display to be dimmed by the use of the park and dash inputs. Again, this input is similarly protected. When this input is at a voltage equal to $V_{BAT}$ (pin 3), the time set, display and dimming are enabled. When the input is at GND (pin 6), the time set, display and dimming are disabled. Nominal voltage levels on this input are $V_{BAT}$ and GND; the actual threshold is approximately 50% of $V_{BAT}$. The display begins to turn on with minimal brightness at this threshold and increases to maximum brightness as the input voltage approaches $V_{BAT}$. This input does not affect the accuracy of the timekeeping logic in any manner. When left open, the input is internally pulled to GND (see table I).

**Park Lights Input (Pin 4):** This input enables the display and the dimming of the display. If the input is at a voltage equal to $V_{BAT}$ (pin 3), the display is enabled at a brightness of 0-33%, depending upon the dash lamp input (pin 2) voltage level. During this condition, the state of the ignition input (pin 1) does not affect the brightness of the display in any manner. When the input is at GND (pin 6), the dimming of the display is disabled and the display is either blanked or at 100% brightness, depending upon the ignition input voltage level. During this condition, the state of the dash lamp input does not affect the brightness of the display in any manner. When left open, the state of the input is dependent upon the state of the ignition input. When ignition is high ($V_{BAT}$), park is internally pulled high; when ignition is low (GND), park is internally pulled low. See table I. Nominal voltage levels on this input are $V_{BAT}$ or GND. However, the actual threshold is is approximately 50% of $V_{BAT}$. This input is also protected against transients and reversals.

## SCHEMATIC DIAGRAM
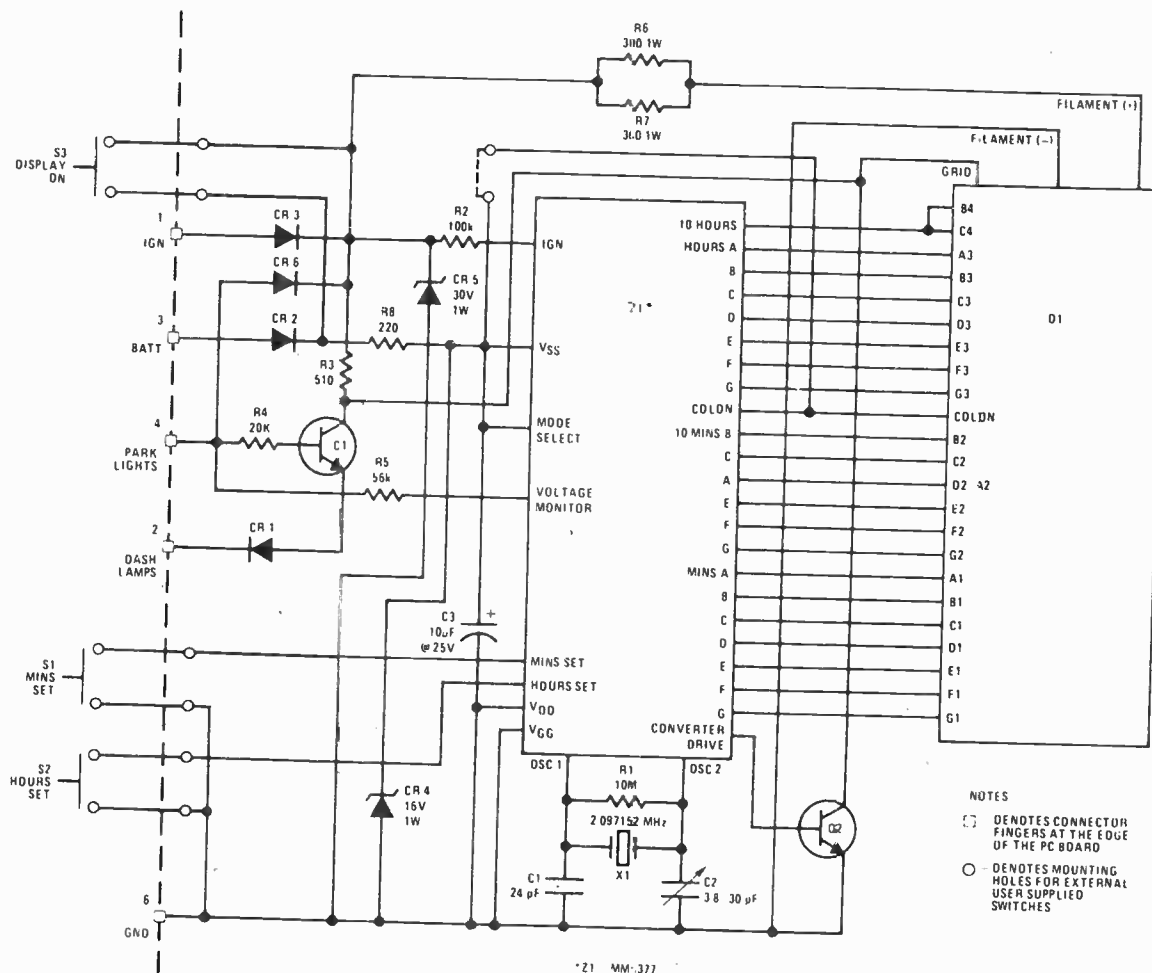
**Dash Lamps Input (Pin 2):** This input controls the display brightness only when the park lights input (pin 4) is active ($V_{BAT}$). When this input is high, or at $V_{BAT}$, the relative brightness of the display is 33%. When this input is low, or at GND, the relative brightness is 0%. As the input voltage is varied from GND to $V_{BAT}$, the brightness varies linearly from 0% to 33%. When the park lights input is not applied, or low, this input does not affect the display brightness in any manner. When left unconnected, the input is internally pulled high (see table I). Like all other edge connector control inputs, this input is similarly protected.

**Hours and Minutes Set Inputs:** These inputs are used to preset time. Hours set will advance the hours at a 1 Hz rate when the input is held at GND. While setting hours, the minutes counter may also advance the hours count. Minutes set will advance the minutes at a 1 Hz rate, hold the internal seconds counter reset to 00 and cause the colon to blink at a 1 Hz rate when the input is held at GND. When left unconnected, both inputs are internally pulled high, or to $V_{BAT}$. Unlike the edge connector control inputs, these inputs are unprotected, and normal precautions taken for handling of MOS devices should be applied to the handling of this module. Both inputs include two PC board terminals located near the edge of the module which can accept SPST switches (see Pin Connection diagram).

**Display "ON" Switch Input:** This input provides a means for displaying time at 100% brightness when both the ignition and park lights inputs (pins 1 and 4) are low or at GND. The input includes two PC board terminals located near the edge of the module which can accept an SPST switch (see Pin Connection diagram).

## ELECTRICAL CHARACTERISTICS $T_A = 25°C$, $V_{BAT} = 14 V_{DC}$, display at 10:08 unless otherwise specified.

| | | | |
|---|---|---|---|
| Power Supply Voltage ($V_{BAT}$) | Timekeeping Maintained | 9 thru 14 | $V_{DC}$ |
| | Time Memory Maintained | 6 thru 14 | $V_{DC}$ |
| Power Supply Current ($I_{BAT}$) | Display Blanked* | 2 | mA |
| | 100% Brightness* | 83 | mA |
| | 33% Brightness* | 97 | mA |
| | 0% Brightness* | 104 | mA |
| Power Consumption | Display Blanked* | 25 | mW |
| | 100% Brightness* | 1.2 | W |
| | 33% Brightness* | 1.4 | W |
| | 0% Brightness* | 1.5 | W |
| Timing Accuracy | $T_A = 25°C$ | ±0.5 | Sec/Day |
| | $T_A = -25°C$ to $+65°C$ | ±2 | Sec/Day |

*See table 1 for corresponding pin connections (pins 1, 2 and 4).

## ABSOLUTE MAXIMUM RATINGS

Voltage—Pins 1, 2, 3, 4 to 6.............................-24$V_{DC}$ to +24$V_{DC}$ (Continuous)
40 $V_P$, Duration 50 ms
80$V_P$, Duration 5 ms
-200 $V_P$, Duration 1 ms
Operating Temperature................................................... -40°C to +85°C
Storage Temperature ..........................................................-65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ..............................300°C

## TABLE I: DISPLAY BRIGHTNESS TRUTH TABLE

| DISPLAY BRIGHTNESS | INPUT PIN CONNECTIONS | | |
|---|---|---|---|
| | IGN (Pin 1) | PARK (Pin 4) | DASH (Pin 2) |
| Display Blanked | L or Open* | L or Open* | X |
| 100% Brightness | H | L | X |
| 33% Brightness | X | H | H or Open* |
| 0% Brightness | X | H | L |

\* —User may leave this particular input pin unconnected to achieve the same effect as logic level shown.
X—Don't care condition.
H—Connection to BATT input (pin 3).
L—Connection to GND input (pin 6).

## TYPICAL APPLICATIONS



Automotive Application



Battery Powered Instrument Application
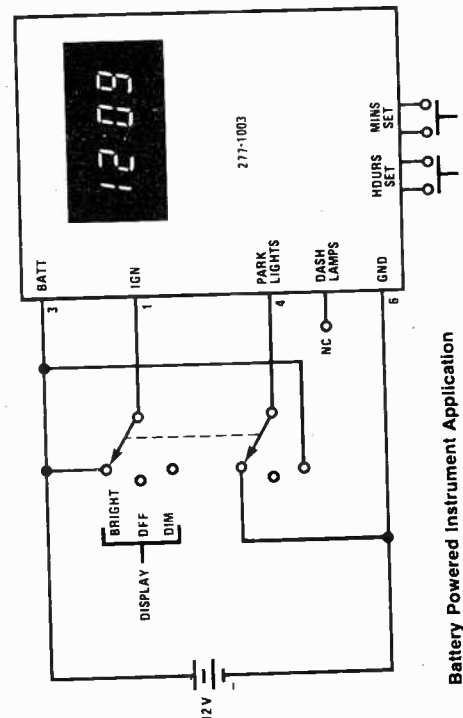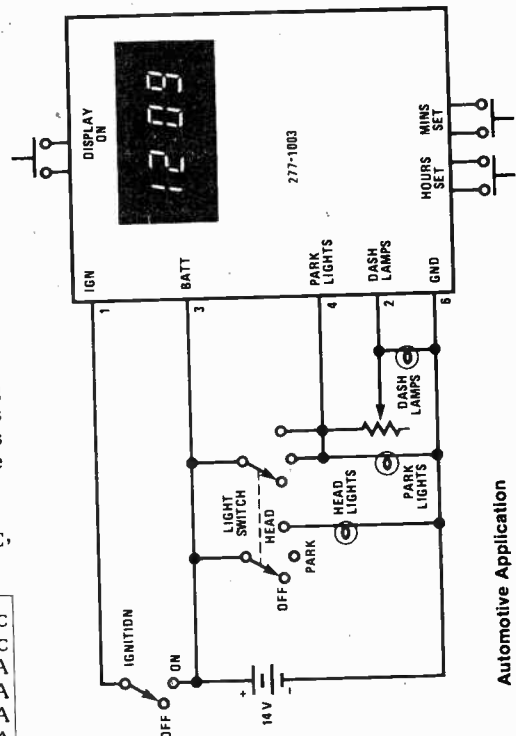
# 8-BIT N-CHANNEL MICROPROCESSOR

**8080**
276-2510

## GENERAL DESCRIPTION

The INS8080A is an 8-bit microprocessor housed in a standard, 40-pin dual-in-line package. The chip, which is fabricated using N-channel silicon gate MOS technology, functions as the central processing unit (CPU) in National Semiconductor's N8080 microcomputer family.

The INS8080A has a 16-bit address bus that is capable of addressing up to 65k bytes of memory and up to 256 input and 256 output devices. Data is routed to and from the INS8080A on a separate bidirectional 8-bit bus. This data bus is also TRI-STATE®, making direct memory addressing (DMA) and multiprocessing applications possible. The INS8080A directly provides signals to control the interface to memory and I/O ports. All buses, including control, are TTL compatible.

An asynchronous interrupt capability is included in the INS8080A to allow external signals to change the instruction sequence. The interrupting device may vector the program to a particular service routine location (or some other direct function) by specifying an interrupt instruction to be executed.

## FEATURES

- 2µs Instruction Cycle
- Variable Length Instructions
- General Purpose Registers—Six plus an Accumulator
- Direct Addressing up to 65k Bytes
- Variable Length Stack Accessed by 16-bit Stack Pointer
- Addresses 256 Input and 256 Output Ports
- Provisions for Vectored Interrupts
- TRI-STATE® Bus for DMA and Multiprocessing Capability
- TRI-STATE TTL Drive Capabilities for Address and Data Buses
- Decimal Arithmetic Capability
- Multiple Addressing Modes
  - —Direct      —Register Indirect
  - —Register    —Immediate
- Direct Plug-in Replacement for Intel 8080A

## FUNCTIONAL PIN DEFINITION

The following describes the function of all of the INS8080A input/output pins. Some of these descriptions reference internal timing periods.

### INPUT SIGNALS

**Ready:** When high (logic 1), indicates that valid memory or input data are available to the CPU on the INS8080A data bus. The READY signal is used to synchronize the CPU with slower memory or input/output devices. If the INS8080A does not receive a high READY input after sending out an address to memory or an input/output device, the INS8080A enters a WAIT mode for as long as the READY input remains low (logic 0). The CPU may also be single stepped by the use of the READY signal.

**Hold:** When high, requests that the CPU enter the HOLD mode. When the CPU is in the HOLD mode, the CPU address and data buses both will be in the high-impedance state. The HOLD mode allows an external device to gain control of the INS8080A address and data buses immediately following the completion of the current machine cycle by the CPU. The CPU acknowledges the HOLD mode via the HOLD ACKNOWLEDGE (HLDA) output line. The HOLD request is recognized under the following conditions:

- The CPU is in the HALT mode.
- The READY signal is active and the CPU is in the $t_2$ or the $t_w$ state.

**Interrupt (INT) Request:** When high, the CPU recognizes an interrupt request on this line after completing the current instruction or while in the HALT mode. An interrupt request is not honored if the CPU is in the HOLD mode (HLDA = logic 1) or the Interrupt Enable Flip-flop is reset (INTE = logic 0).

**Reset:** When activated (high) for a minimum of three clock periods, the content of the Program Counter is cleared and the Interrupt Enable and Hold Acknowledge Flip-flops are reset. Following a RESET, program execution starts at memory location 0. It should be noted that the status flags, accumulator, stack pointer, and registers are not cleared during the RESET sequence.

## PIN CONNECTION

TOP VIEW

| Pin | Signal | | Pin | Signal |
|---|---|---|---|---|
| 1 | A10 | | 40 | A11 |
| 2 | GND | | 39 | A14 |
| 3 | D4 | | 38 | A13 |
| 4 | D5 | | 37 | A12 |
| 5 | D6 | | 36 | A15 |
| 6 | D7 | | 35 | A9 |
| 7 | D3 | | 34 | A8 |
| 8 | D2 | | 33 | A7 |
| 9 | D1 | | 32 | A6 |
| 10 | D0 | | 31 | A5 |
| 11 | -5V | | 30 | A4 |
| 12 | RESET | | 29 | A3 |
| 13 | HOLD | | 28 | +12V |
| 14 | INT | | 27 | A2 |
| 15 | φ2 | | 26 | A1 |
| 16 | INTE | | 25 | A0 |
| 17 | DBIN | | 24 | WAIT |
| 18 | WR | | 23 | READY |
| 19 | SYNC | | 22 | φ1 |
| 20 | +5V | | 21 | HLDA |

INS8080A
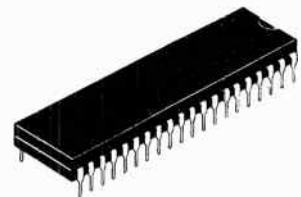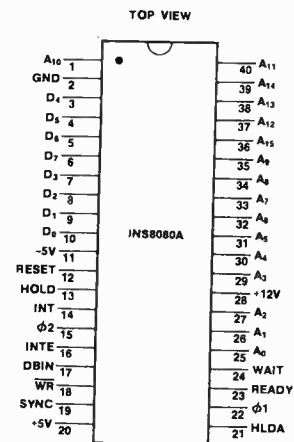
**Ø1 and Ø2 Clocks:** Two non-TTL compatible clock phases which provide nonoverlapping timing references for internal storage elements and logic circuits of the CPU.

**+12 Volts:** $V_{DD}$ Supply.
**Ground:** $V_{SS}$ (0 volt) reference.

**+5 Volts:** $V_{CC}$ Supply.
**-5 Volts:** $V_{BB}$ Supply.

## OUTPUT SIGNALS

**Synchronizing (SYNC) Signal:** When activated (high), the beginning of a new machine cycle is indicated and the status word is outputted on the Data Bus.

**Address ($A_{15} - A_0$) Bus:** This bus comprises sixteen TRI-STATE output lines. The bus provides the address to memory (up to 65k bytes) or denotes the input/output device number for up to 256 input and 256 output peripherals.

**Wait:** When high, acknowledges that the CPU is in the WAIT mode.

**Write (WR):** When low, the data on the data bus are stable for WRITE memory or output operation.

**Hold Acknowledge (HLDA):** Goes high in response to a logic 1 on the HOLD line and indicates that the data and address bus will go to the high-impedance state. The HLDA begins at one of the following times:

- The $t_3$ state of a READ memory input operation.
- The clock period following the $t_3$ state of a WRITE memory output operation.

In both cases, the HLDA signal starts after the rising edge of the Ø1 clock, and high impedance occurs after the rising edge of the Ø2 clock.

**Interrupt Enable (INTE):** Indicates the content of the internal Interrupt Enable Flip-flop. The Enable and Disable Interrupt (EI and DI) Instructions cause the Interrupt Enable Flip-flop to be set and reset, respectively. When the flip-flop is reset (INTE = logic 0), it inhibits interrupts from being accepted by the CPU. In addition, the Interrupt Enable Flip-flop is automatically reset (thereby disabling further interrupts) at the $t_1$ state of the instruction fetch cycle, when an interrupt is accepted; it is also reset by the RESET Signal.

**Data Bus In (DBIN):** When high, indicates to external circuits that the data bus is in the input mode. The DBIN Signal should be used to gate data from memory or an I/O device onto the Data Bus.

## INPUT/OUTPUT SIGNALS

**Data ($D_7 - D_0$) Bus:** This bus comprises eight TRI-STATE input/output lines. The bus provides bidirectional communication between the CPU, memory, and input/output devices for instructions and data transfers. A status word (which describes the current machine cycle) is also outputted on the data bus during the first state of each machine cycle (SYNC = logic 1).

## 8080A STATUS

Instructions for the 8080A require from one to five machine cycles for complete execution. The 8080A sends out 8 bits of status information on the data bus at the beginning of each machine cycle (during SYNC time). The following table defines the status information.

## STATUS INFORMATION DEFINITION

| Symbols | Data Bus Bit | Definition |
|---|---|---|
| INTA* | $D_0$ | Acknowledge signal for INTERRUPT request Signal should be used to gate a restart instruction onto the data bus when DBIN is active. |
| WO | $D_1$ | Indicates that the operation in the current machine cycle will be a WRITE memory or OUTPUT function (WO = 0). Otherwise, a READ memory or INPUT operation will be executed. |
| STACK | $D_2$ | Indicates that the address bus holds the pushdown stack address from the Stack Pointer. |
| HLTA | $D_3$ | Acknowledge signal for HALT Instruction. |
| OUT | $D_4$ | Indicates that the address bus contains the address of an output device and the data bus will contain the output data when WR is active. |
| $M_1$ | $D_5$ | Provides a signal to indicate that the CPU is in the fetch cycle for the first byte of an instruction. |
| INP* | $D_6$ | Indicates that the address bus contains the address of an input device and the input data should be placed on the data bus when DBIN is active. |
| MEMR* | $D_7$ | Designates that the data bus will be used for memory read data. |

*These three status bits can be used to control the flow of data onto the INS8080A data bus.

## CAPACITANCE

$T_A = 25°C$, $V_{CC} = V_{DD} = V_{SS} = 0V$, $V_{BB} = -5V$

| Symbol | Parameter | Typ. | Max. | Unit | Test Condition |
|--------|-----------|------|------|------|----------------|
| $C_\phi$ | Clock Capacitance | 17 | 25 | pF | $f_C = 1MHz$ |
| $C_{IN}$ | Input Capacitance | 6 | 10 | pF | Unmeasured Pins |
| $C_{OUT}$ | Output Capacitance | 10 | 20 | pF | Returned to $V_{SS}$ |

**Typical Supply Current vs Temperature, Normalized[3]**
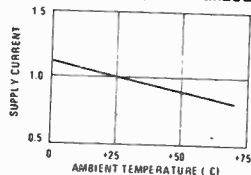


**Data Bus Characteristic During DBIN.**
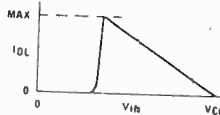


Note 1: The RESET signal must be active for a minimum of 3 clock cycles.
Note 2: When DBIN is high and $V_{IN} > V_{IH}$ an internal active pullup will be switched onto the Data Bus.
Note 3: $\Delta I$ supply/ $\Delta T_A = -0.45\%/°C$.

## ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Min. | Typ. | Max. | Unit | Test Condition |
|--------|-----------|------|------|------|------|----------------|
| $V_{ILC}$ | Clock Input Low Voltage | $V_{SS}-1$ | — | $V_{SS}+0.8$ | V | |
| $V_{IHC}$ | Clock Input High Voltage | 9.0 | — | $V_{DD}+1$ | V | |
| $V_{IL}$ | Input Low Voltage | $V_{SS}-1$ | — | $V_{SS}+0.8$ | V | |
| $V_{IH}$ | Input High Voltage | 3.3 | — | $V_{CC}+1$ | V | |
| $V_{OL}$ | Output Low Voltage | | | 0.45 | V | $I_{OL} = 1.9mA$ on all outputs, |
| $V_{OH}$ | Output High Voltage | 3.7 | | | V | $I_{OH} = 150\mu A$. |
| $I_{DD\ AV}$ | Avg. Power Supply Current ($V_{DD}$) | | 40 | 70 | mA | Operation |
| $I_{CC\ AV}$ | Avg. Power Supply Current ($V_{CC}$) | | 60 | 80 | mA | $t_{CY} = 0.48\mu s$ |
| $I_{BB\ AV}$ | Avg. Power Supply Current ($V_{BB}$) | | 0.01 | 1 | mA | |
| $I_{IL}$ | Input Leakage | | | ±10 | μA | $V_{SS} \leq V_{IN} \leq V_{CC}$ |
| $I_{CL}$ | Clock Leakage | | | ±10 | μA | $V_{SS} \leq V_{CLOCK} \leq V_{DD}$ |
| $I_{DL}{}^2$ | Data Bus Leakage in Input Mode | | | -100 / -2.0 | μA / mA | $V_{SS} \leq V_{IN} \leq V_{SS} + 0.8V$ / $V_{SS} = 0.8V \leq V_{IN} \leq V_{CC}$ |
| $I_{FL}$ | Address and Data Bus Leakage During HOLD | | | +10 / -100 | μA / μA | $V_{ADDR\ DATA} = V_{CC}$ / $V_{ADDR\ DATA} = V_{SS} + 0.45V$ |

## STATUS WORD CHART

| Machine Cycle | Type | Data Bus Bit | | | | | | | |
|---------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | $D_7$ | $D_6$ | $D_5$ | $D_4$ | $D_3$ | $D_2$ | $D_1$ | $D_0$ |
| Instruction Fetch | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| Memory Read | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Memory Write | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Stack Read | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stack Write | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| Input Read | 6 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| Output Write | 7 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Interrupt Acknowledge | 8 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Halt Acknowledge | 9 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Interrupt Acknowledge While Halt | 10 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 |

## ABSOLUTE MAXIMUM RATINGS

Temperature Under Bias.................................................................0°C to +70°C
Storage Temperature...............................................................-65°C to +150°C
All Input or Output Voltages
  with Respect to $V_{BB}$..........................................................-0.3V to +20V
$V_{CC}$, $V_{DD}$ and $V_{SS}$ with Respect to $V_{BB}$................................................-0.3V to +20V
Power Dissipation..............................................................................1.5W

**Note:** Maximum ratings indicate limits beyond which permanent damage may occur. Continuous operation at these limits is not intended and should be limited to those conditions specified under dc electrical characteristics.

## BLOCK DIAGRAM
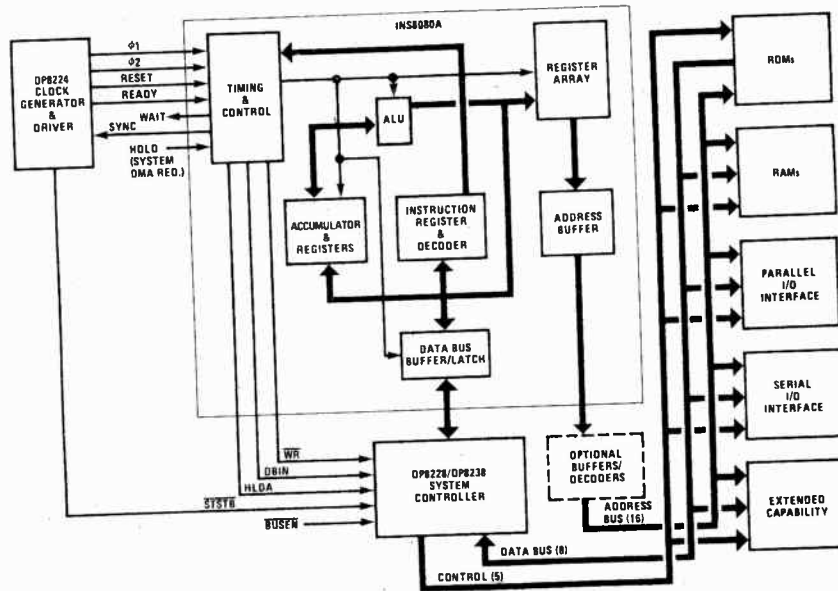


## CPU FUNCTIONAL BLOCK DIAGRAM
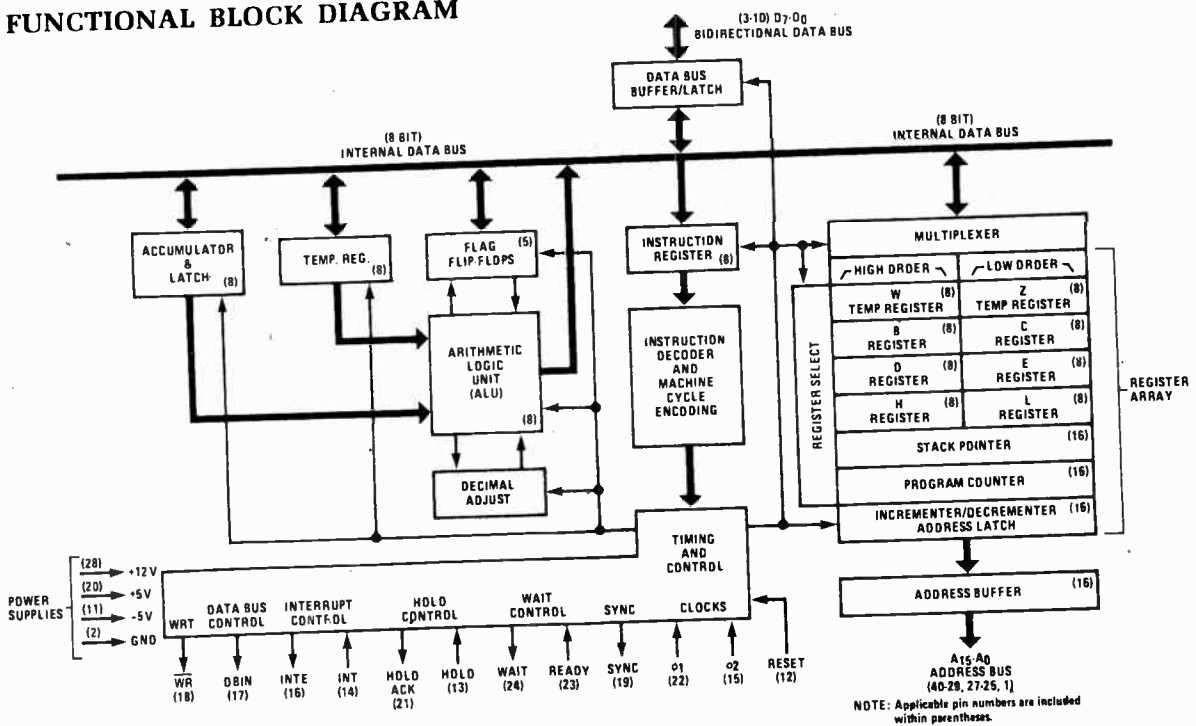
## TIMING WAVEFORMS[1]

Note: Timing measurements are made at the following reference voltages: CLOCK '1' = 8.0V, '0' = 1.0V; INPUTS '1' = 3.3V, '0' = 0.8V; OUTPUTS '1' = 2.0V, '0' = 0.8V.
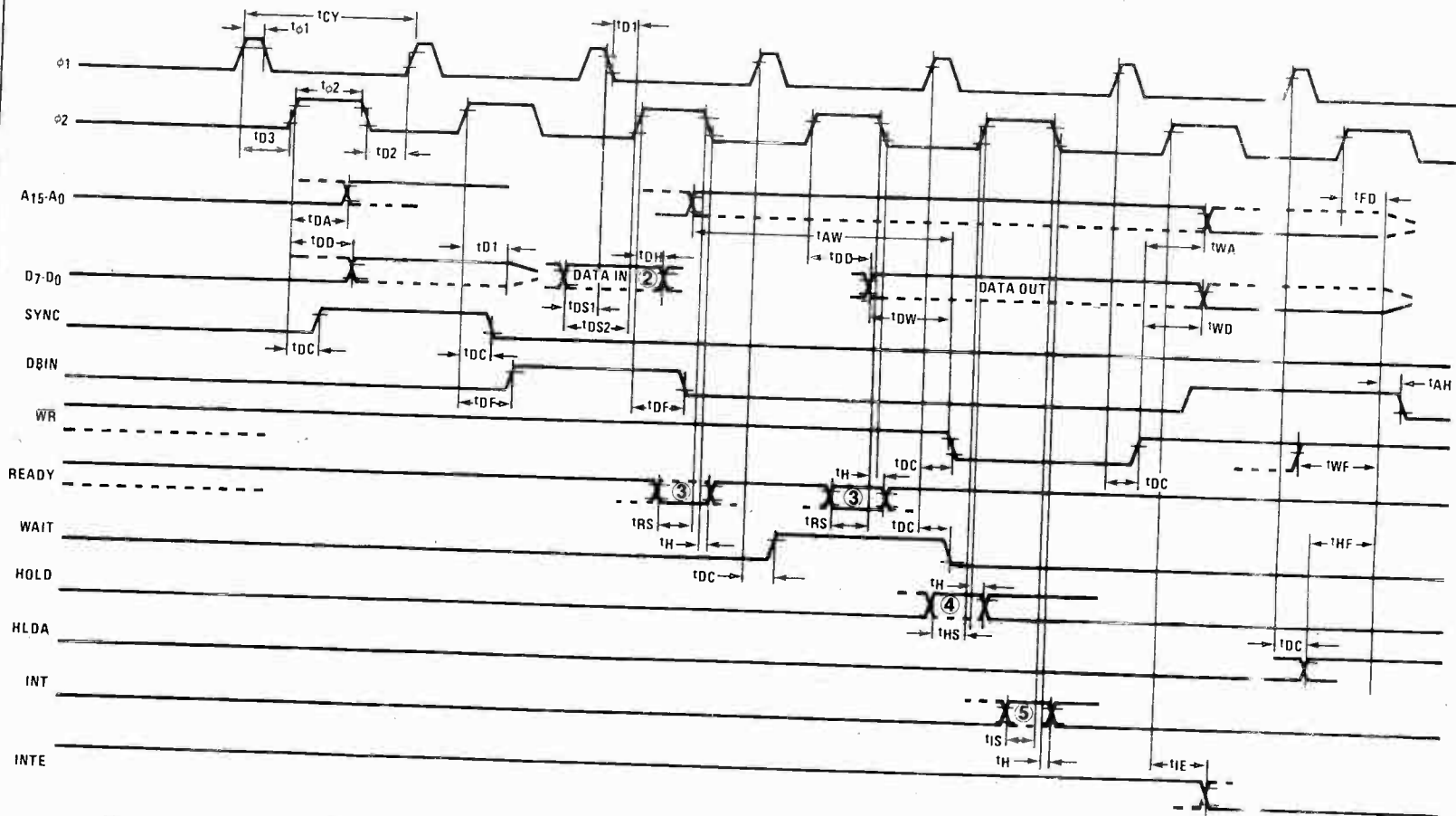


Note: 1 This timing diagram shows timing relationships only, it does not represent any specific machine cycle.

Note 2: Data in must be stable for this period during DBIN·$T_3$. Both $t_{DS1}$ and $t_{DS2}$ must be satisfied.

Note 3: Ready signal must be stable for this period during $T_2$ or $T_W$. (Must be externally synchronized.)

Note 4: Hold signal must be stable for this period during $T_2$ or $T_W$ when entering hold mode, and during $T_3$, $T_4$, $T_5$ and $T_{WH}$ when in hold mode. (External synchronization is not required.)

Note 5: Interrupt signal must be stable during this period of the last clock cycle of any instruction in order to be recognized on the following instruction. (External synchronization is not required.)

## 74C00
276-2301
## 74C02
276-2302
## 74C04
276-2303

# QUAD TWO-INPUT NAND GATE
# QUAD TWO-INPUT NOR GATE
# HEX INVERTER

**PIN CONNECTION**

TOP VIEW



74C00

74C02

74C04

## GENERAL DESCRIPTION

These logic gates employ complementary MOS (CMOS) to achieve wide power supply operating range, low power consumption, high noise immunity and symmetric controlled rise and fall times. With features such as this the 74C logic family is close to ideal for use in digital systems. Function and pin out compatibility with series 74 devices minimizes design time for those designers already familiar with the standard 74 logic family.

All inputs are protected from damage due to static discharge by diode clamps to $V_{CC}$ and GND.

## FEATURES

- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V.
- High noise immunity 0.45 $V_{CC}$ typ.
- Low power consumption 10 nW/package typ.
- Low power TTL compatibility fan out of 2 driving 74L.

## ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin ............................................... –0.3V to $V_{CC}$ +0.3V
Operating Temperature Range ............................... –40°C to +85°C
Storage Temperature Range ................................... –65°C to +150°C
Maximum $V_{CC}$ Voltage ........................................... 16V
Package Dissipation .............................................. 500 mW
Lead Temperature (Soldering, 10 seconds) ............. 300°C.

---

## 74C08
276-2305

# QUAD TWO-INPUT AND GATE

**PIN CONNECTION**

TOP VIEW



## GENERAL DESCRIPTION

Employing complementary MOS (CMOS) transistors to achieve wide power supply operating range, low power consumption and high noise immunity these gates provide basic functions used in the implementation of digital integrated circuit systems. The N and P-channel enhancement mode transistors provide a symmetrical circuit with output swing essentially equal to the supply voltage. No dc power other than that caused by leakage current is consumed during static condition. All inputs are protected from damage due to static discharge by diode clamps to $V_{CC}$ and GND.

## FEATURES

- Wide supply voltage range 3.0V to 15V
- Guaranteed noise margin 1.0V
- High noise immunity 0.45$V_{CC}$ typ.
- Low power TTL compatibility fan out of 2 driving 74L
- Low power consumption 10 nW/package typ.

## ABSOLUTE MAXIMUM RATINGS

Voltage at Any Pin ............................................... –0.3 to $V_{CC}$ +0.3V
Operating Temperature Range ............................... –40°C to +85°C
Storage Temperature Range ................................... –65°C to +150°C
Package Dissipation .............................................. 500 mW
Operating $V_{CC}$ Range ............................................. 3.0V to 15V
Absolute Maximum $V_{CC}$ ........................................ 16V
Lead Temperature (Soldering, 10 seconds) ............. 300°C.
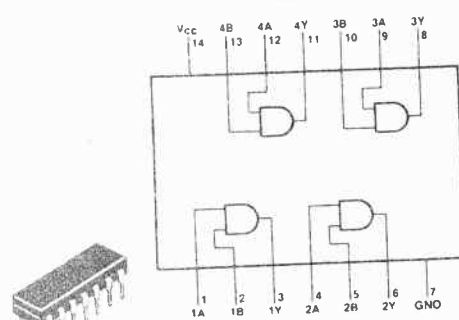
### TRUTH TABLE

| INPUTS | | OUTPUT |
|---|---|---|
| A | B | Y |
| L | L | L |
| L | H | L |
| H | L | L |
| H | H | H |

H = High Level
L = Low Level

# DUAL D FLIP-FLOP

**74C74**
**276-2310**

## GENERAL DESCRIPTION

The 74C74 dual D flip flop is a monolithic complementary MOS (CMOS) integrated circuit constructed with N- and P-channel enhancement transistors. Each flip flop has independent data, preset, clear and clock inputs and Q and $\bar{Q}$ outputs. The logic level present at the data input is transferred to the output during the positive going transition of the clock pulse. Preset or clear is independent of the clock and accomplished by a low level at the preset or clear input.

## APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm system
- Industrial electronics
- Remote metering
- Computers

## FEATURES

- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2LPTL loads
- High noise immunity 0.45 $V_{CC}$ (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

## ABSOLUTE MAXIMUM RATINGS

Voltage at any pin (Note 1) ............................ -0.3 to $V_{CC}$ +0.3V
Operating temperature ................................ -40°C to +85°C
Storage temperature ................................. -65°C to 150°C
Maximum $V_{CC}$ Voltage ............................... 16V
Package dissipation .................................. 500 mW
Lead temperature (Soldering, 10 sec) .................. 300°C
Operating $V_{CC}$ range ............................... +3V to +15V

**Note 1:** These devices should not be connected under power off conditions

### PIN CONNECTION
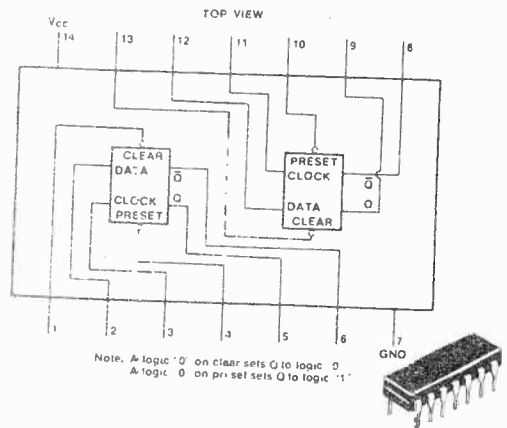

Note: A logic "0" on clear sets Q to logic "0"
A logic "0" on preset sets Q to logic "1"

### LOGIC DIAGRAM


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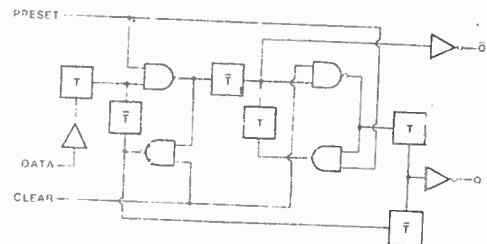
# DUAL J-K FLIP-FLOPS WITH CLEAR AND PRESET

**74C76**
**276-2312**

## GENERAL DESCRIPTION

These dual J-K flip-flops are monolithic complementary MOS (CMOS) integrated circuits constructed with N- and P-channel enhancement transistors. Each flip-flop has independent J, K, clock and clear inputs and Q and $\bar{Q}$ outputs. The 74C76 flip flops also include preset inputs and are supplied in 16 pin packages. These flip flops are edge sensitive to the clock input and change state on the negative going transition of the clock pulses. Clear or preset is independent of the clock and is accomplished by a low level on the respective input.

## APPLICATIONS

- Automotive
- Data terminals
- Instrumentation
- Medical electronics
- Alarm systems
- Industrial electronics
- Remote metering
- Computers

## FEATURES

- Supply voltage range 3V to 15V
- Tenth power TTL compatible drive 2 LPTTL loads
- High noise immunity 0.45 $V_{CC}$ (typ)
- Low power 50 nW (typ)
- Medium speed operation 10 MHz (typ) with 10V supply

## ABSOLUTE MAXIMUM RATINGS

Voltage at any pin (Note 1) ............................ -0.3V to $V_{CC}$ +0.3V
Operating Temperature ................................ -40°C to +85°C
Storage Temperature ................................. -65°C to 150°C
Maximum $V_{CC}$ Voltage ............................... 16V
Package Dissipation .................................. 500 mW
Lead Temperature (Soldering, 10 sec) .................. 300°C
Operating $V_{CC}$ Range ............................... +3V to +15V

**Note 1:** This device should not be connected to circuits with the power on because high transient voltages may cause permanent damage.

### PIN CONNECTION
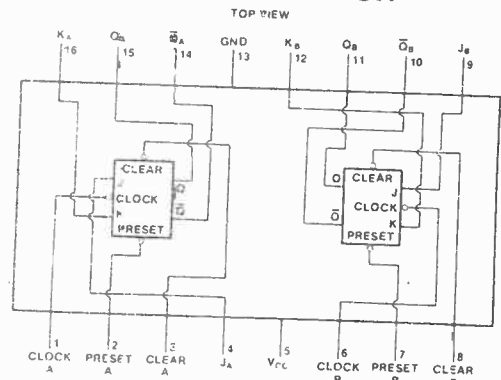

Note 1: A logic "0" on clear sets Q to a logic "0"
Note 2: A logic "0" on preset sets Q to a logic "1"

### LOGIC DIAGRAM
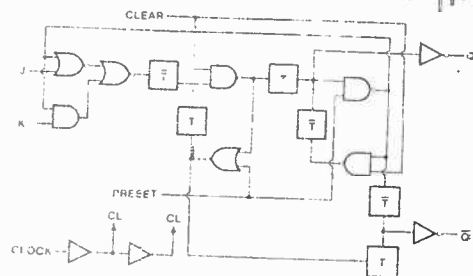
# INTEGRATED CIRCUITS

## 74C90
276-2315

# FOUR-BIT DECADE COUNTER

### PIN CONNECTION

TOP VIEW



### GENERAL DESCRIPTION

The 74C90 decade counter is constructed with N and P-channel enhancement mode transistors. The 4-bit decade counter can be reset to zero or preset to nine by applying appropriate logic level on the $R_{01}$, $R_{02}$, $R_{91}$ and $R_{92}$ inputs, also a separate flip-flop on the A-bit enables the user to operate it as a divide-by-2, 5 or 10 frequency counter. All inputs are protected against static discharge damage.

### FEATURES

- Wide supply voltage range 3V to 15V
- Guaranteed noise margin 1V
- High noise immunity 0.45 $V_{CC}$ (typ)
- Low power TTL compatibility fan out of 2 driving 74L

### ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Voltage at Any Pin | -0.3V to $V_{CC}$ +0.3V |
| Operating Temperature Range | -40°C to +85°C |
| Package Dissipation | 500 mW |
| Operating $V_{CC}$ Range | 3V to 15V |
| Absolute Maximum $V_{CC}$ | 16V |
| Storage Temperature Range | -65°C to +150°C |
| Lead Temperature (Soldering, 10 seconds) | 300°C |
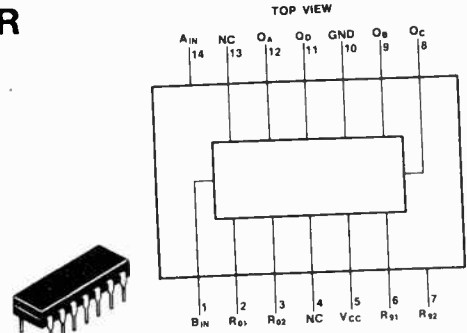
### LOGIC DIAGRAM
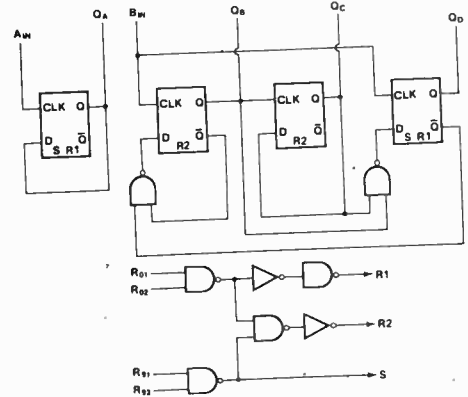


## 74C192
276-2321

## 74C193
276-2322

# SYNCHRONOUS FOUR-BIT UP/DOWN DECADE
# SYNCHRONOUS FOUR-BIT UP/DOWN BINARY

### GENERAL DESCRIPTION

These up/down counters are monolithic complementary MOS (CMOS) integrated circuits. The 74C192 is a BCD counter. While the 74C193 is a binary counter.

Counting up and counting down is performed by two count inputs, one being held high while the other is clocked. The outputs change on the positive going transition of this clock.

These counters feature preset inputs that are set when load is a logical "0" and a clear which forces all outputs to "0" when it is at logical "1". The counters also have carry and borrow outputs so that they can be cascaded using no external circuitry.

### FEATURES

- High noise margin 1V guaranteed
- Tenth power TTL compatible drive 2 LPTTL loads
- Wide supply range 3V to 15V
- Carry and borrow outputs for N-bit cascading
- Asynchronous clear
- High noise immunity 0.45 $V_{CC}$ typ

### ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Voltage at Any Pin (Note 1) | -0.3V to $V_{CC}$ +0.3V |
| Operating Temperature Range | -40°C to +85°C |
| Storage Temperature Range | -65°C to +150°C |
| Maximum $V_{CC}$ Voltage | 16V |
| Package Dissipation | 500 mW |
| Operating $V_{CC}$ Range | +3V to +15V |
| Lead Temperature (Soldering, 10 sec) | 300°C |

Note 1: This device should not be connected to circuits with the power on because high transient voltage may cuase permanent damage.

### PIN CONNECTION

TOP VIEW
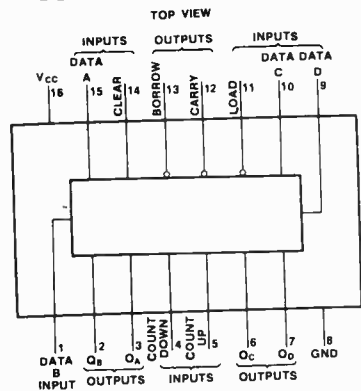


### CASCADING PACKAGES

TOP VIEW
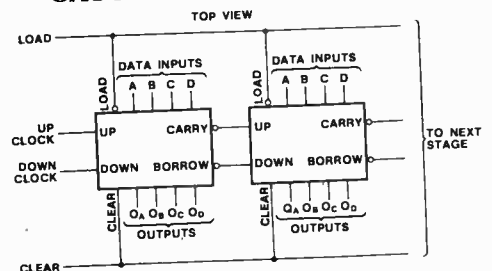
# QUAD TWO-INPUT NOR GATE

**4001**
276-2401

## GENERAL DESCRIPTION

The 4001 quad 2-Input NOR gate is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS logic gates find primary use where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Quiescent Current = 0.5 nA typ/pkg @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation—Positive or Negative
- High Fanout > 50
- Input Impedance = $10^{12}$ ohms typical
- Logic Swing Independent of Fanout

### PIN CONNECTION



$V_{DD}$ = Pin 14
$V_{SS}$ = Pin 7

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

DC Supply Voltage ....................................................................... -0.5 to +16 Vdc
Input Voltage, All Inputs ...................................... -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Pin ............................................................ 10 mAdc
Operating Temperature Range ..................................... -40 to 85°C
Storage Temperature Range ............................... -65 to +150°C

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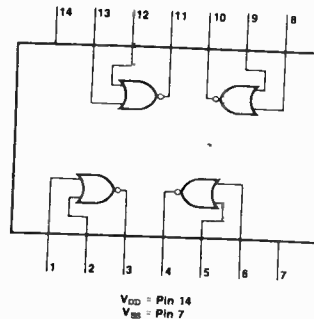
# QUAD TWO-INPUT NAND GATE

**4011**
276-2411

## GENERAL DESCRIPTION

The 4011 is constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Quiescent Current = 0.5 nA typ/pkg @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typ
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Double Diode Protection on All Inputs

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

DC Supply ............................................................... -0.5 to +16 Vdc
Input Voltage, All Inputs ...................................... -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Pin .................................. -0.5 to $V_{DD}$ +0.5 Vdc
Operating Temperature Range .............................................. 10 mAdc
Storage Temperature Range ................................... -40 to +85°C
...................................................................... -65 to +150°C

### PIN CONNECTION

TOP VIEW



$V_{DD}$ = Pin 14
$V_{SS}$ = Pin 7

### CIRCUIT SCHEMATIC



14 $V_{DD}$

3, 4, 10, 11

1, 6, 8, 13

2, 5, 9, 12

7 $V_{SS}$

27
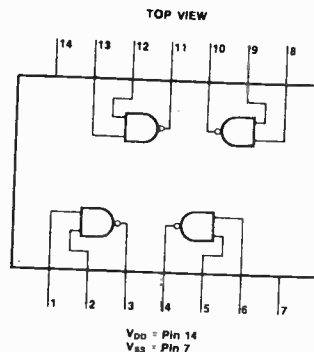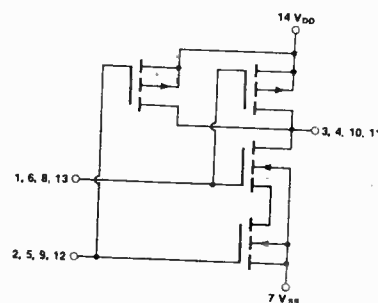
## 4013
### 276-2413

# DUAL TYPE D FLIP-FLOP

## GENERAL DESCRIPTION

The 4013 dual type D flip-flop is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. Each flip-flop has independent Data, (D), Direct Set, (S), Direct Reset, (R), and Clock (C) inputs and complementary outputs (Q and $\overline{Q}$). These devices may be used as shift register elements or as type T flip-flops for counter and toggle applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.
Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Static Operation
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation
- Toggle Rate = 4 MHz typical @ 5 Vdc
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

## PIN CONNECTION

TOP VIEW



$V_{DD}$ = Pin 14
$V_{SS}$ = Pin 7

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

DC Supply Voltage ...................................................... -0.5 to +16 Vdc
Input Voltage, All Inputs ............................................ -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Pin ............................................. 10 mAdc
Operating Temperature Range ....................................... -40 to +85°C
Storage Temperature Range .......................................... -65 to +150°C

## TRUTH TABLE

| Inputs | | | | Outputs | |
|---|---|---|---|---|---|
| Clock† | Data | Reset | Set | Q | $\overline{Q}$ |
| ⌐ | 0 | 0 | 0 | 0 | 1 |
| ⌐ | 1 | 0 | 0 | 1 | 0 |
| ⌐ | x | 0 | 0 | No Change | |
| x | x, | 1 | 0 | 0 | 1 |
| x | x | 0 | 1 | 1 | 0 |
| x | x | 1 | 1 | 1 | 1 |

x= Don't Care
† = Level Change

# DECADE COUNTER/DIVIDER

**4017**
276-2417

## GENERAL DESCRIPTION

The 4017 is a five-stage Johnson decade counter with built-in code converter. High-speed operation and spike-free outputs are obtained by use of a Johnson decade counter design. The ten decoded outputs are normally low, and go high only at their appropriate decimal time period. The output changes occur on the positive-going edge of the clock pulse. This part can be used in frequency division applications as well as decade counter or decimal decode display applications.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Fully Static Operation
- DC Clock Input Circuit Allows Slow Rise Times
- Carry Out Output for Cascading
- 12 MHz (typical) Operation @ $V_{DD}$ = 10 Vdc
- Quiescent Current = 5.0 nA/package Typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

DC Supply Voltage ................................................................. -0.5 to +16 Vdc
Input Voltage, All Inputs ................................................. -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Pin ............................................................ 10 mAdc
Operating Temperature Range ................................................ -40 to +85°C
Storage Temperature Range ............................................... -65 to +150°C

## PIN CONNECTION



TOP VIEW

$V_{DD}$ = Pin 16
$V_{SS}$ = Pin 8

## LOGIC DIAGRAM



## TRUTH TABLE
### (Positive Logic)

| Clock | Clock Enable | Reset | Decode Output = n |
|-------|--------------|-------|-------------------|
| 0 | x | 0 | n |
| x | 1 | 0 | n |
| x | x | 1 | Q0 |
| ⌐⌐ | 0 | 0 | n + 1 |
| ⌐⌐ | x | 0 | n |
| x | ⌐⌐ | 0 | n |
| 1 | ⌐⌐ | 0 | n + 1 |

x = Don't Care   If n < 5 Carry = "1",
Otherwise = "0"
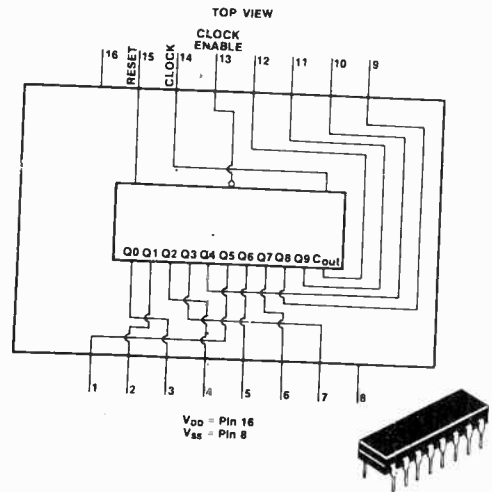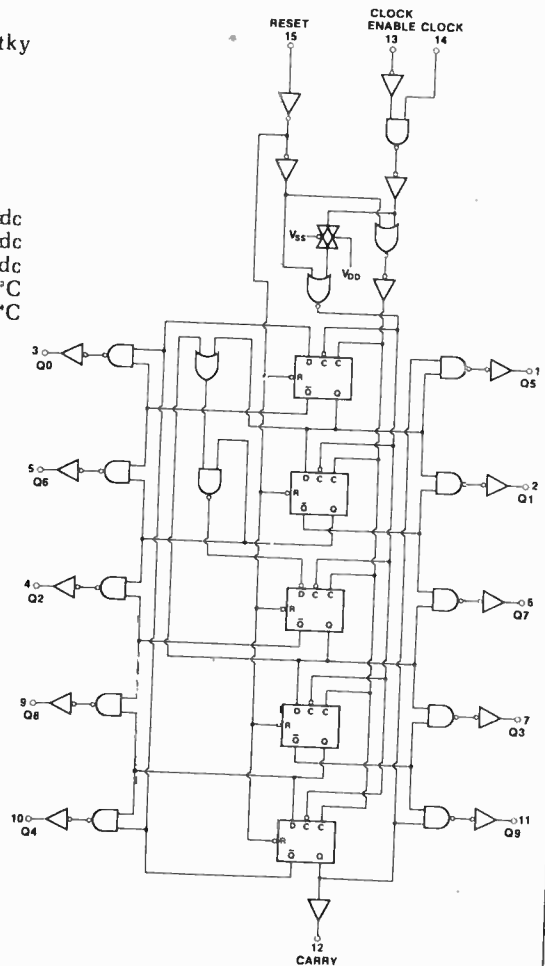
## 4020
### 276-2420
# 14-BIT BINARY COUNTER

## GENERAL DESCRIPTION

The 4020 14-stage binary counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. This part is designed with an input wave shaping circuit and 14 stages of ripple-carry binary counter. The device advances the count on the negative-going edge of the clock pulse. Applications include time delay circuits, counter controls, and frequency-dividing circuits.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Fully Static Operation
- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range
- Low Input Capacitance = 5.0pF typical
- Buffered Outputs Available from stages 1 and 4 thru 14
- Common Reset Line
- 13 MHz Typical Counting Rate @ $V_{DD}$ = 15V

## PIN CONNECTIONS



## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

| | |
|---|---|
| DC Supply Voltage | -0.5 to +16 Vdc |
| Input Voltage, All Inputs | -0.5 to $V_{DD}$ +0.5 Vdc |
| DC Current Drain per Pin | 10 mAdc |
| Operating Temperature Range | -40 to +85°C |
| Storage Temperature Range | -65 to +150°C |

## LOGIC DIAGRAM



| | | |
|---|---|---|
| Q6 = Pin 4 | Q9 = Pin 12 | $V_{DD}$ = Pin 16 |
| Q7 = Pin 6 | Q10 = Pin 14 | $V_{SS}$ = Pin 8 |
| Q8 = Pin 13 | Q11 = Pin 15 | |
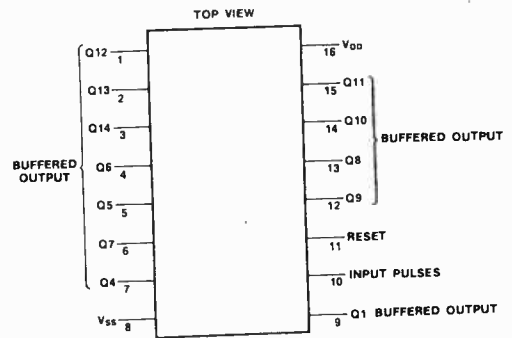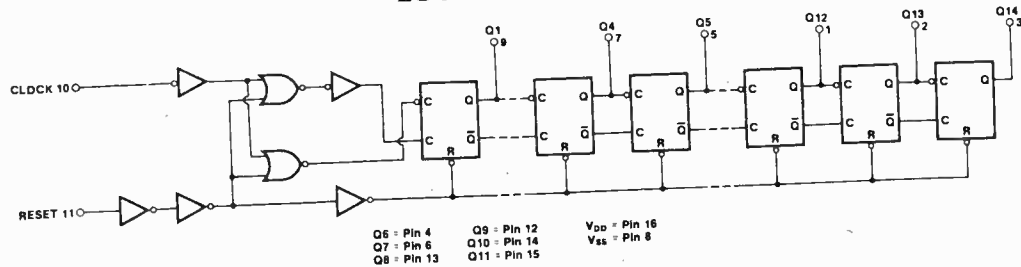
## TRUTH TABLE

| Clock | Reset | Output State |
|---|---|---|
| _⌐ | 0 | No Change |
| ⌐_ | 0 | Advance to next state |
| x | 1 | All Outputs are low |

x = Don't Care

# DUAL J-K FLIP-FLOP
**4027**
**276-2427**

## GENERAL DESCRIPTION

The 4027 dual J-K flip-flop has independent J, K, Clock (C), Set (S) and Reset (R) inputs for each flip-flop. These devices may be used in control, register, or toggle functions.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS}$ $\leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Single Supply Operation—Positive or Negative
- Toggle Rate = 3.0 MHz typical @ 5 Vdc
- Logic Swing Independent of Fanout
- Logic Edge-Clocked Flip-Flop Design—Logic state is retained indefinitely with clock level either high or low; information is transferred to the output only on the positive-going edge of the clock pulse
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

| | |
|---|---|
| DC Supply Voltage | -0.5 to +16 Vdc |
| Input Voltage, All Inputs | -0.5 to $V_{DD}$ +0.5 Vdc |
| DC Current Drain per Pin | 10 mAdc |
| Operating Temperature Range | -40 to +85°C |
| Storage Temperature Range | -65 to +150°C |

## PIN CONNECTION

**TOP VIEW**



$V_{DD}$ = Pin 16
$V_{SS}$ = Pin 8

## TRUTH TABLE

| Inputs | | | | | | Outputs* | |
|---|---|---|---|---|---|---|---|
| C† | J | K | S | R | Qn‡ | Qn +1 | Q̄n +1 |
| ⟋ | 1 | x | 0 | 0 | 0 | 1 | 0 |
| ⟋ | x | 0 | 0 | 0 | 1 | 1 | 0 |
| ⟋ | 0 | x | 0 | 0 | 0 | 0 | 1 |
| ⟋ | x | 1 | 0 | 0 | 1 | 0 | 1 |
| ⟍ | x | x | 0 | 0 | x | No Change | |
| x | x | x | 1 | 0 | x | 1 | 0 |
| x | x | x | 0 | 1 | x | 0 | 1 |
| x | x | x | 1 | 1 | x | 1 | 1 |

x = Don't Care
† = Level Change
‡ = Present State
* = Next State

**4049**
276-2449
**4050**
276-2450

# INVERTING HEX BUFFER
# NONINVERTING HEX BUFFER

## GENERAL DESCRIPTION

The 4049 hex inverter/buffer and 4050 noninverting hex buffer are constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. These complementary MOS devices find primary use where low power dissipation and/or high noise immunity is desired. These devices provide logic-level conversion using only one supply voltage, $V_{CC}$. The input-signal high level ($V_{IH}$) can exceed the $V_{CC}$ supply voltage for logic-level conversions. Two TTL/DTL Loads can be driven when the devices are used as CMOS-to-TTL/DTL converters ($V_{CC}$ = 5.0 V, $V_{OL} \leq 0.4$ V, $I_{OL} \geq 3.2$ mA). Note that pin 16 is not connected internally on these devices; consequently connections to this terminal will not affect circuit operation.

## FEATURES

- High Source and Sink Currents
- High-to-Low Level Converter
- Quiescent Current = 2.0 nA/package typical @ 5 Vdc
- Supply Voltage Range = 3.0 Vdc to 16 Vdc

## ABSOLUTE MAXIMUM RATINGS
(Voltages referenced to $V_{SS}$, Pin 8)

| | |
|---|---|
| DC Supply Voltage | -0.5 to +16 Vdc |
| Input Voltage, All Inputs | -0.5 to $V_{DD}$ +0.5 Vdc |
| DC Current Drain per Input Pin | 10 mAdc |
| DC Current Drain per Output Pin | 45 mAdc |
| Operating Temperature Range | -40 to +85°C |
| Storage Temperature Range | -65 to +150°C |

## LOGIC DIAGRAMS

TOP VIEW



NC · Pin 13, 16
$V_{SS}$ · Pin 8
$V_{CC}$ · Pin 1

**4049**



NC · Pin 13, 16
$V_{SS}$ · Pin 8
$V_{CC}$ · Pin 1

**4050**
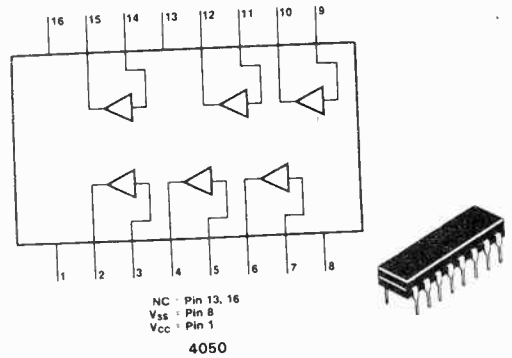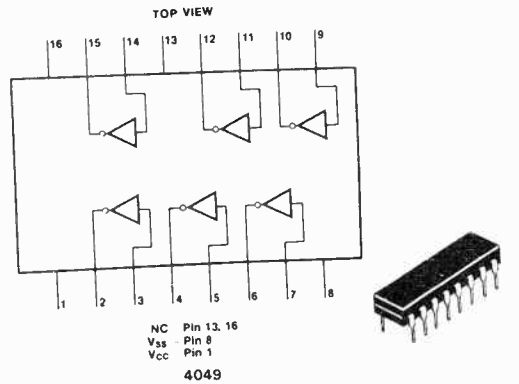
## CIRCUIT SCHEMATIC
(1/6 OF CIRCUIT SHOWN)



4049

4050
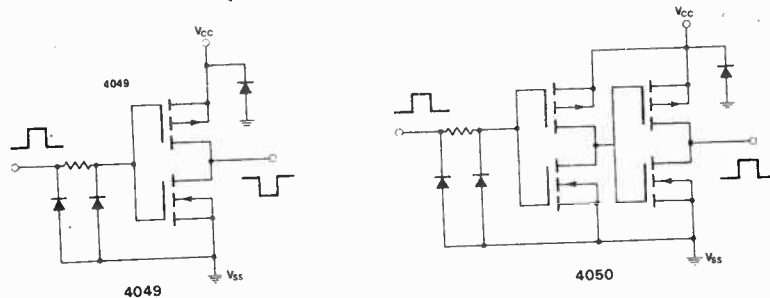
# BCD-TO-SEVEN SEGMENT LATCH/DECODER/DRIVER

**4511**
**276-2447**

## GENERAL DESCRIPTION

The 4511 BCD-to-seven segment latch/decoder/driver is constructed with complementary MOS (CMOS) enhancement mode devices and NPN bipolar output drivers in a single monolithic structure. The circuit provides the functions of a 4-bit storage latch, an 8421 BCD-to-seven segment decoder, and an output drive capability. Lamp test ($\overline{LT}$), blanking ($\overline{BI}$), and latch enable (LE) inputs are used to test the display, and to store a BCD code, respectively. It can be used with seven-segment light emitting diodes (LED), incandescent, fluorescent, gas discharge, or liquid crystal readouts either directly or indirectly.

Applications include instrument (e.g., counter, DVM, etc.) display driver, computer/calculator display driver, cockpit display driver, and various clock, watch, and timer uses.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. A destructive high current mode may occur if $V_{in}$ and $V_{out}$ is not constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$

Due to the sourcing capability of this circuit, damage can occur to the device if $V_{DD}$ is applied, and the outputs are shorted to $V_{SS}$ and are at a logical 1 (See Maximum Ratings).

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Low Logic Circuit Power Dissipation
- High-Current Sourcing Outputs (Up to 25 mA)
- Latch Storage of Code
- Blanking Input
- Lamp Test Provision
- Readout Blanking on all Illegal Input Combinations
- Lamp Intensity Modulation Capability
- Time Share (Multiplexing) Facility
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

## ABSOLUTE MAXIMUM RATINGS
### (Voltages referenced to $V_{SS}$)

DC Supply Voltage ..................................................... -0.5 to +16 Vdc
Input Voltage, All Inputs ..................................... -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Input Pin ........................................... 10 mAdc
Operating Temperature Range ....................................... -40 to +85°C
Storage Temperature Range ..................................... -65 to +150
Maximum Continuous Output Drive Current
  (Source) per Output ................................................... 25 mA
Maximum Continuous Output Power
  (Source) per Output ‡ ................................................ 50 mW

‡$P_{OUTmax} = I_{OH}(V_{DD} - V_{OH})$.

## TRUTH TABLE

| Inputs | | | | | | | Outputs | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LE | $\overline{BI}$ | $\overline{LT}$ | D | C | B | A | a | b | c | d | e | f | g | Display |
| x | x | 0 | x | x | x | x | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| x | 0 | 1 | x | x | x | x | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 |
| 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 2 |
| 0 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 3 |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 4 |
| 0 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 5 |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 6 |
| 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 7 |
| 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| 0 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 1 | 9 |
| 0 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Blank |
| 1 | 1 | 1 | x | x | x | x | | | | | | | | |

x = Don't Care

*Depends upon the BCD code previously applied when LE = 0

## PIN CONNECTION

**TOP VIEW**



f g a b c d e

B C LT BI LE D A

$V_{DD}$ = Pin 16
$V_{SS}$ = Pin 8





DISPLAY
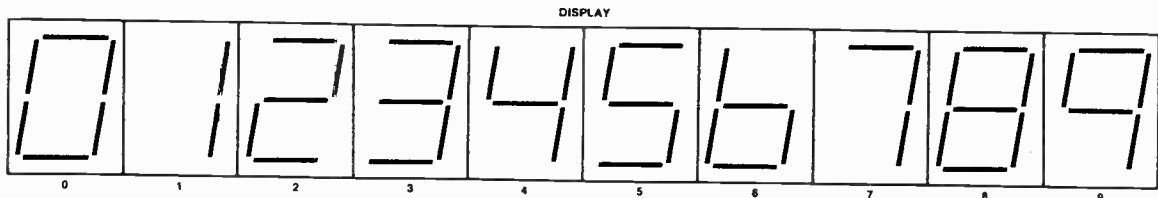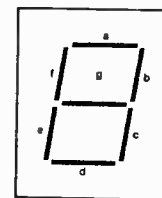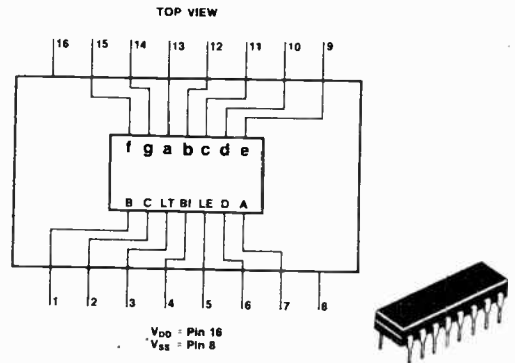
## 4518
276-2490

# DUAL BCD UP COUNTER

## GENERAL DESCRIPTION

The 4518 dual BCD counter is constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. It consists of two identical, independent, internally synchronous 4-stage counters. The counter stages are type D flip-flops, with interchangeable Clock and Enable lines for incrementing on either the positive-going or negative-going transition as required when cascading multiple stages. Each counter can be cleared by applying a high level on the Reset line. In addition, the 4518 will count out of all undefined states within two clock periods. These complementary MOS up counters find primary use in multi-stage synchronous or ripple counting applications requiring low power dissipation and/or high noise immunity.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit. For proper operation it is recommended that $V_{in}$ and $V_{out}$ be constrained to the range $V_{SS} \leq (V_{in}$ or $V_{out}) \leq V_{DD}$.

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either $V_{SS}$ or $V_{DD}$).

## FEATURES

- Quiescent Current = 5.0 nA/package typical @ 5 Vdc
- Noise Immunity = 45% of $V_{DD}$ typical
- Diode Protection on All Inputs
- Supply Voltage Range = 3.0 Vdc to 16 Vdc
- Low Input Capacitance = 5.0 pF typical
- Internally Synchronous for High Internal and External Speeds
- Logic Edge-Clocked Design—Incremented on Positive Transition of Clock or Negative Transition on Enable
- 6.0 MHz Counting Rate
- Capable of Driving Two Low-power TTL Loads, One Low-power Schottky TTL Load or Two HTL Loads Over the Rated Temperature Range

## PIN CONNECTION



TOP VIEW

$V_{DD}$ = Pin 16
$V_{SS}$ = Pin 8

## ABSOLUTE MAXIMUM RATINGS

DC Supply Voltage ....................................................... -0.5 to +16 Vdc
Input Voltage, All Inputs.................................................... -0.5 to $V_{DD}$ +0.5 Vdc
DC Current Drain per Pin.................................................. 10 mAdc
Operating Temperature Range ........................................ -40 to +85°C
Storage Temperature Range ........................................... -65 to +150°C

### TRUTH TABLE

| Clock | Enable | Reset | Action |
|-------|--------|-------|--------|
| ⌐ | 1 | 0 | Increment Counter |
| 0 | ⌐ | 0 | Increment Counter |
| ⌐ | x | 0 | No Change |
| x | ⌐ | 0 | No Change |
| ⌐ | 0 | 0 | No Change |
| 1 | ⌐ | 0 | No Change |
| x | x | 1 | Q1 thru Q4=0 |

x = Don't Care
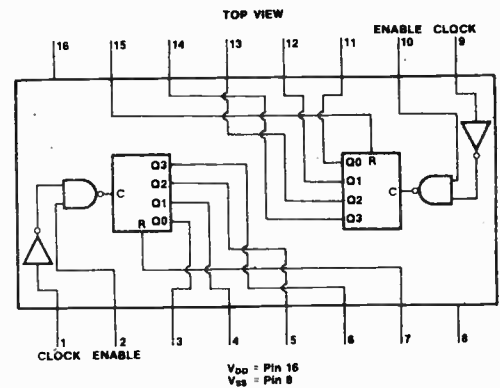
# OPERATIONAL AMPLIFIER

**301**
276-017

## GENERAL DESCRIPTION

The 301 is a monolithic operational amplifier intended for general purpose applications. Operation is completely specified over the range of voltages commonly used for these devices. The design, in addition to providing high gain, minimizes both offset voltage and bias currents. Further, the class-B output stage gives a large output capability with minimum power drain.

External components are used to frequency compensate the amplifier. Although the unity-gain compensation network specified will make the amplifier unconditionally stable in all feedback configurations, compensation can be tailored to optimize high-frequency performance for any gain setting.

The fact that the amplifier is built on a single silicon chip provides low offset and temperature drift at minimum cost. It also ensures negligible drift due to temperature gradients in the vicinity of the amplifier.

## PIN CONNECTION



TOP VIEW
(A)

INPUT FREQUENCY COMPENSATION (B)

(−) INPUTS (+)

V+

OUTPUT

OUTPUT FREQUENCY COMPENSATION

V−

Metal Can
Note: Pin 4 connected to case.

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage ...................................................................................±16V
Power Dissipation ........................................................................... 500 mW
Differential Input Voltage............................................................±30V
Input Voltage.............................................................................................±15V
Output Short-Circuit Duration (T_A = 55°C)....................................Indefinite
Storage Temperature Range .......................................... -65°C to +150°C
Operating Temperature Range ........................................0°C to +70°C
Lead Temperature (Soldering, 10 seconds) ............................................300°C

## TYPICAL APPLICATIONS
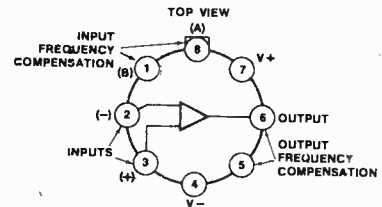
**Variable Capacitance Multiplier**
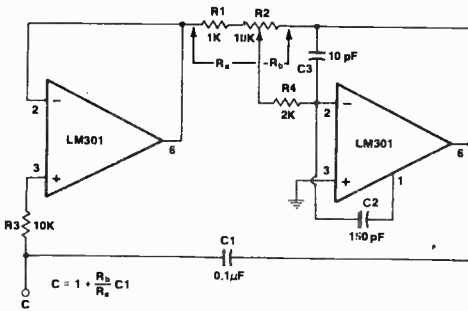


**Simulated Inductor**
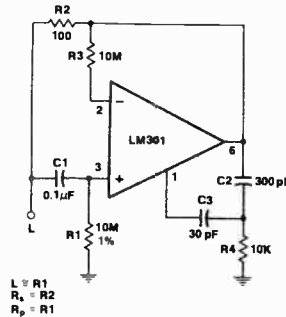


**Fast Inverting Amplifier with High Input Impedance**
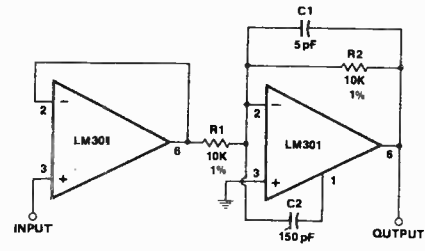


**Inverting Amplifier with Balancing Circuit**
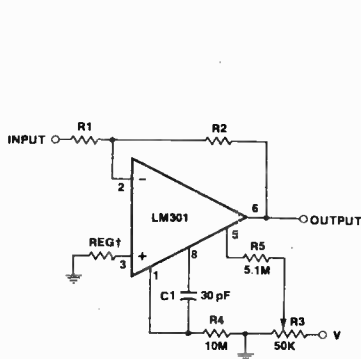


† May be zero or equal to parallel combination of R1 and R2 for minimum offset.

**Sinewave Oscillator**
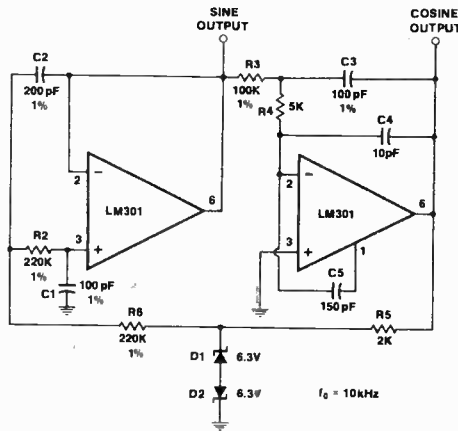


**Integrator with Bias Current Compensation**
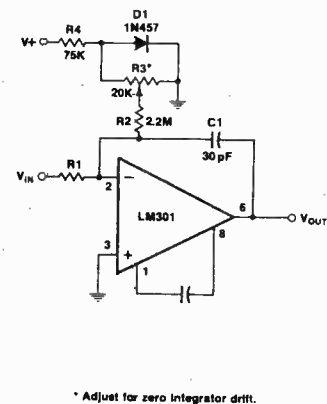


* Adjust for zero integrator drift.

## 324
276-1711

# QUAD OP AMP

## GENERAL DESCRIPTION

The 324 series consists of four independent, high gain, internally frequency compensated operational amplifiers which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage.

Application areas include transducer amplifiers, dc gain blocks and all the conventional op amp circuits which now can be more easily implemented in single power supply systems. For example, the 324 series can be directly operated off of the standard +5 $V_{DC}$ power supply voltage which is used in digital systems and will easily provide the required interface electronics without requiring the additional ±15 $V_{DC}$ power supplies.

## FEATURES

- Internally frequency compensated for unity gain
- Large dc voltage gain 100 dB
- Wide bandwidth (unity gain) 1 MHz (temperature compensated)
- Wide power supply range:
    Single supply 3 $V_{DC}$ to 30 $V_{DC}$
    or dual supplies ±1.5 $V_{DC}$ to ±15 $V_{DC}$
- Very low supply current drain (800μA)—essentially independent of supply voltage (1 mW/op amp at +5 $V_{DC}$)
- Low input biasing current 45 $nA_{DC}$ (temperature compensated)
- Low input offset voltage 2 $mV_{DC}$ and offset current 5 $nA_{DC}$
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Large output voltage swing 0 $V_{DC}$ to $V^+$ −1.5 $V_{DC}$

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage, $V^+$ .................................................... 32 $V_{DC}$ or ±16 $V_{DC}$
Differential Input Voltage.................................................. 32 $V_{DC}$
Input Voltage.......................................... -0.3 $V_{DC}$ to +32 $V_{DC}$
Power Dissipation
    Molded DIP ......................................................... 570 mW
    Cavity DIP ........................................................... 900 mW
Output Short-Circuit to GND (One Amplifier)........................... Continuous
    $V^+ \leq 15$ $V_{DC}$ and $T_A = 25°C$
Input Current ($V_{IN} < -0.3$ $V_{OL}$)..................................... 50 mA
Operating Temperature Range ......................................0°C to +70°C
Storage Temperature Range ................................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) .............................. 300°C

## TYPICAL APPLICATIONS

**Driving TTL**
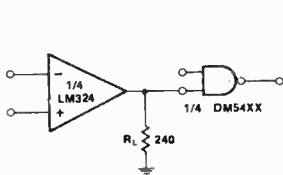


**Voltage Follower**
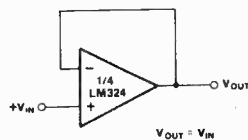


**Squarewave Oscillator**



**Pulse Generator**



## PIN CONNECTION

TOP VIEW



Dual-In-Line and Flat Package

## SCHEMATIC DIAGRAM
(Each Amplifier)
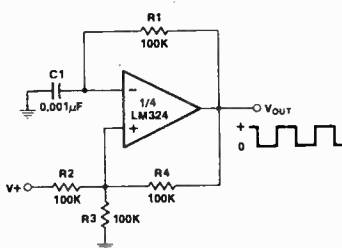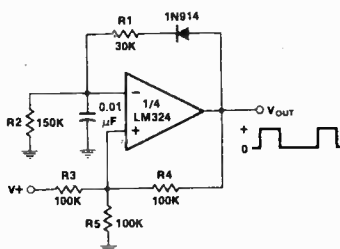


**Pulse Generator**



**High Compliance Current Sink**



$I_O$ = 1 amp/volt $V_{IN}$
(Increase $R_E$ for $I_O$ small)
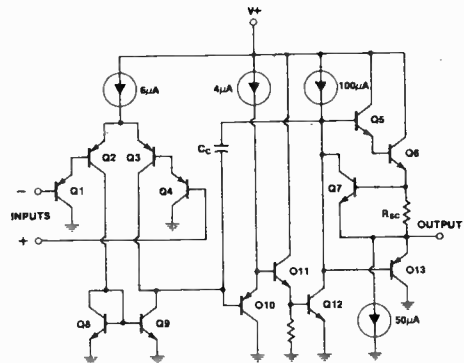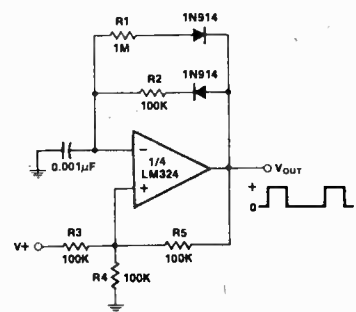
# QUAD COMPARATOR

**339**
**276-1712**

## GENERAL DESCRIPTION

The 339 series consists of four independent voltage comparators which were designed specifically to operate from a single power supply over a wide range of voltages. Operation from split power supplies is also possible and the low power supply current drain is independent of the magnitude of the power supply voltage. These comparators also have a unique characteristic in that the input common-mode voltage range includes ground, even though operated from a single power supply voltage.

## FEATURES

- Wide single supply:
  Voltage range $2V_{DC}$ to $32V_{DC}$ or dual supplies $\pm 1V_{DC}$ to $\pm 16V_{DC}$
- Very low supply current drain (0.8 mA)—independent of supply voltage
  (1 mW/comparator at +5 $V_{DC}$)
- Input common-mode voltage range includes ground
- Differential input voltage range equal to the power supply voltage
- Low output 1 mV at 5μA; saturation voltage 70 mV at 1 mA
- Output voltage compatible with TTL (fanout of 2), DTL, ECL, MOS and CMOS logic systems

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage, V⁺ ...................................................... 32 $V_{DC}$ or ±16 $V_{DC}$
Differential Input Voltage ............................................. 36 $V_{DC}$
Input Voltage ............................................................... -0.3 $V_{DC}$ to +36 $V_{DC}$
Power Dissipation
  Molded DIP ............................................................ 570 mW
  Cavity DIP .............................................................. 900 mW
Output Short-Circuit to GND ....................................... Continuous
Input Current (V$_{IN}$ < -0.3 $V_{DC}$) ................................... 50 mA
Operating Temperature Range ...................................... 0°C to +70°C
Storage Temperature Range .......................................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) .................. 300°C

## PIN CONNECTION



TOP VIEW

Dual-In-Line and Flat Package
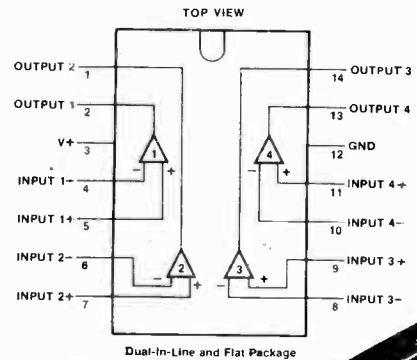
## SCHEMATIC DIAGRAM
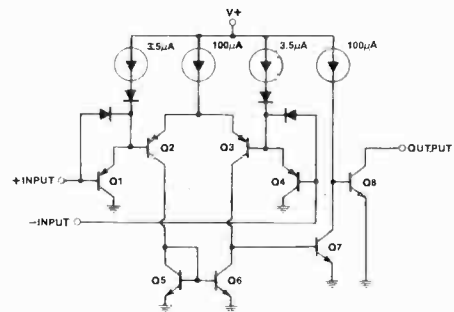


## TYPICAL APPLICATIONS

**5 VOLT GROUP**
(V+ = 5.0 $V_{DC}$)

**Basic Comparator**
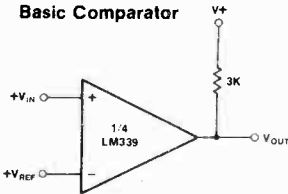


**Driving CMOS**
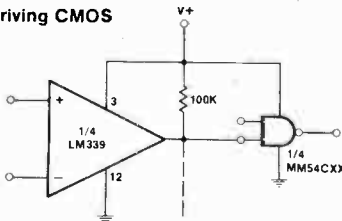


**Driving TTL**



**AND Gate**



f = A•B•C
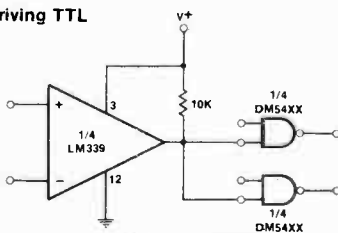
**One-Shot Multivibrator**
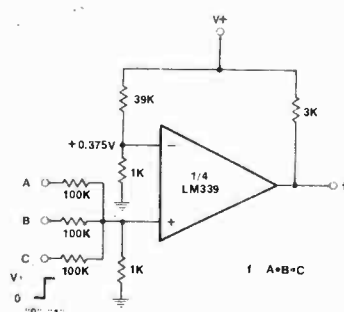


**15V GROUP**
(V+ = 15 $V_{DC}$)

**OR Gate**



f = A•B•C
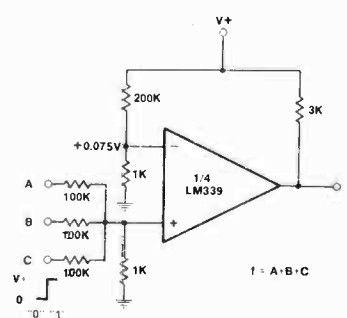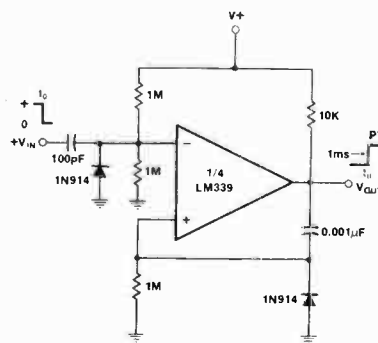
**Bi-Stable Multivibrator**
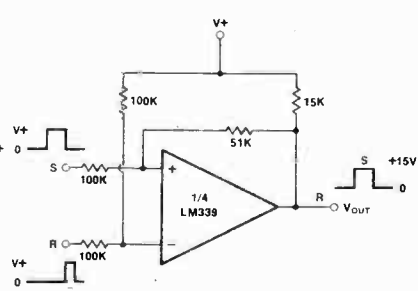
## 377
276-702

# DUAL TWO-WATT AUDIO AMPLIFIER

## GENERAL DESCRIPTION

The 377 is a monolithic dual power amplifier which offers high quality performance for stereo phonographs, tape players, recorders, and AM-FM stereo receivers, etc.

The 377 will deliver 2W/channel into 8 or 16Ω loads. The amplifier is designed to operate with a minimum of external components and contains an internal bias regulator to bias each amplifier. Device overload protection consists of both internal current limit and thermal shutdown.

## FEATURES

- $A_{VO}$ typical 90 dB
- 2W per channel
- 70 dB ripple rejection
- 75 dB channel separation
- Internal stabilization
- Self centered biasing
- 3 MΩ input impedance
- 10-26V operation
- Internal current limiting
- Internal thermal protection

## APPLICATIONS

- Multi-channel audio systems
- Tape recorders and players
- Movie projectors
- Automotive systems
- Stereo phonographs
- Bridge output stages
- AM-FM radio receivers
- Intercoms
- Servo amplifiers
- Instrument systems

## PIN CONNECTION

TOP VIEW



Dual-In-Line Package

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage ........................................................................ 26V
Input Voltage ............................................................ 0V-$V_{SUPPLY}$
Operating Temperature ........................................... 0°C to +70°C
Storage Temperature ........................................... -65°C to +150°C
Junction Temperature ...................................................... 150°C
Lead Temperature (Soldering, 10 seconds) ...................... 300°C

## TYPICAL APPLICATIONS
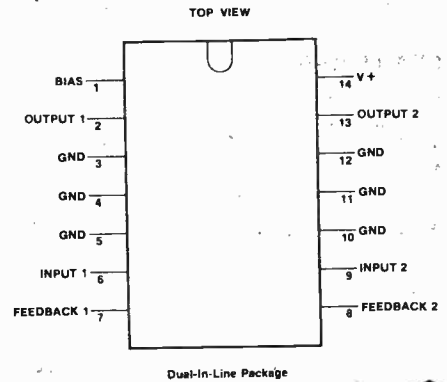
**Simple Stereo Amplifier**
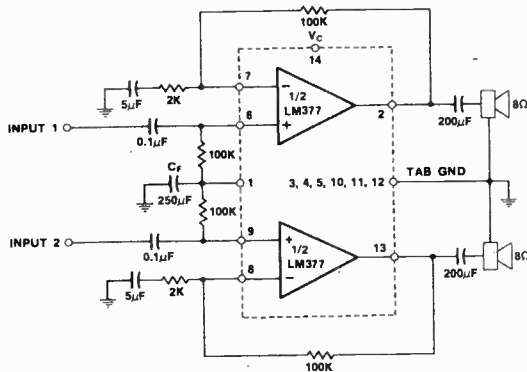


**Simple Stereo Amplifier with Bass Boost**
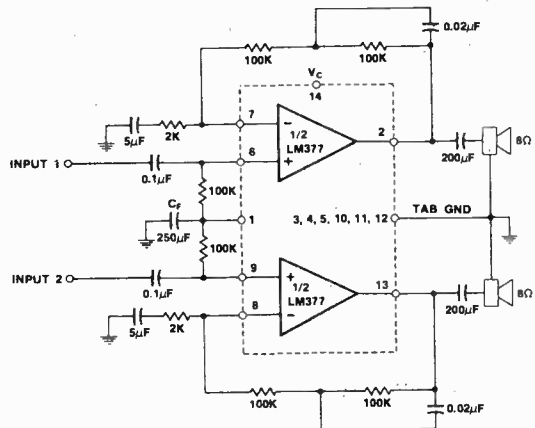


**10W Per Channel Audio Amplifier**
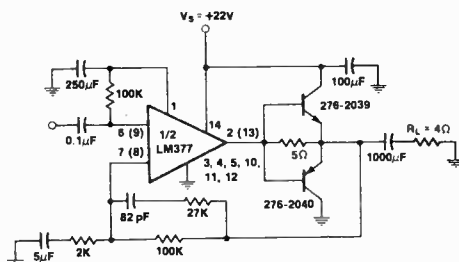


**4W Bridge Amplifier**
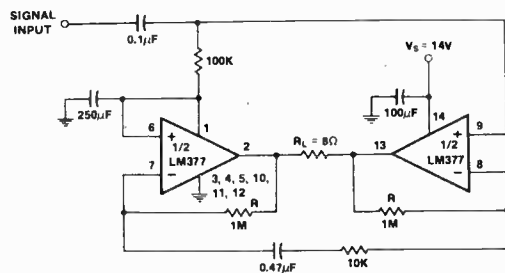
# LOW VOLTAGE AUDIO POWER AMPLIFIER

**386**
**276-1731**

## GENERAL DESCRIPTION

The 386 is a power amplifier designed for use in low voltage consumer applications. The gain is internally set to 20 to keep external part count low, but the addition of an external resistor and capacitor between pins 1 and 8 will increase the gain to any value up to 200.

The inputs are ground referenced while the output is automatically biased to one half the supply voltage. The quiescent power drain is only 18 milliwatts when operating from a 6 volt supply, making the 386 ideal for battery operation.

## FEATURES

- Battery operation
- Minimum external parts
- Wide supply voltage range 4-12 Volts
- Low quiescent current drain 3 mA
- Voltage gains from 20 to 200
- Ground referenced input
- Self-centering output quiescent voltage
- Low distortion
- Eight pin dual-in-line package

## APPLICATIONS

- AM-FM radio amplifiers
- Portable tape player amplifiers
- Intercoms
- TV sound systems
- Line drivers
- Ultrasonic drivers
- Small servo drivers
- Power converters

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage ...................................................................... 15V
Package Dissipation 8 Pin DIP ....................................... 660 mW
Input Voltage ...................................................................... ±0.4V
Storage Temperature ........................................ -65°C to +150°C
Operating Temperature ....................................... 0°C to +70°C
Junction Temperature ........................................................ +150°C
Lead Temperature (Soldering, 10 seconds) ...................... +300°C

## PIN CONNECTION

TOP VIEW



| GAIN | 1 | | 8 | GAIN |
| −INPUT | 2 | | 7 | BYPASS |
| + INPUT | 3 | | 6 | $V_S$ |
| GND | 4 | | 5 | $V_{OUT}$ |

Dual-In-Line Package
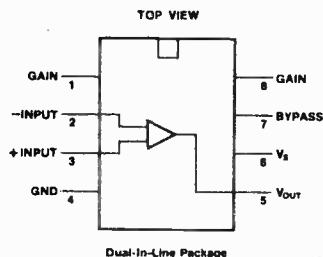
## SCHEMATIC DIAGRAM



## TYPICAL CHARACTERISTICS



**Distortion vs Frequency**

**Distortion vs Output Power**

**Device Dissipation vs Output Power—4Ω Load**

**Device Dissipation vs Output Power—8Ω Load**

**Device Dissipation vs Output Power—16Ω Load**

## TYPICAL APPLICATIONS



**Amplifier with Gain = 20 Minimum Parts**

**Amplifier with Gain = 200**

**Amplifier with Gain = 50**
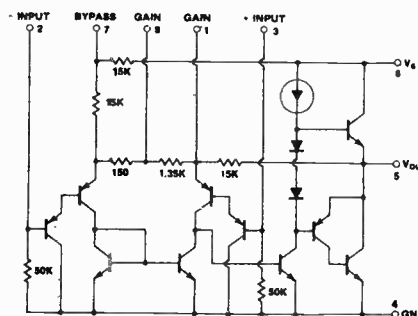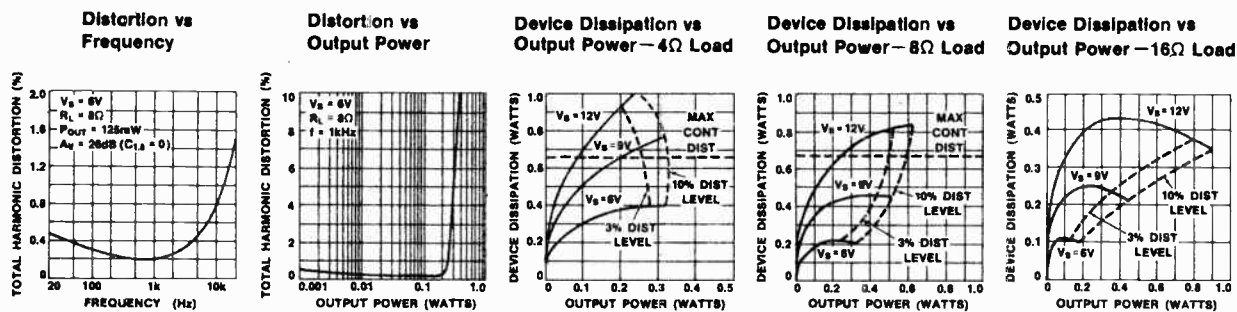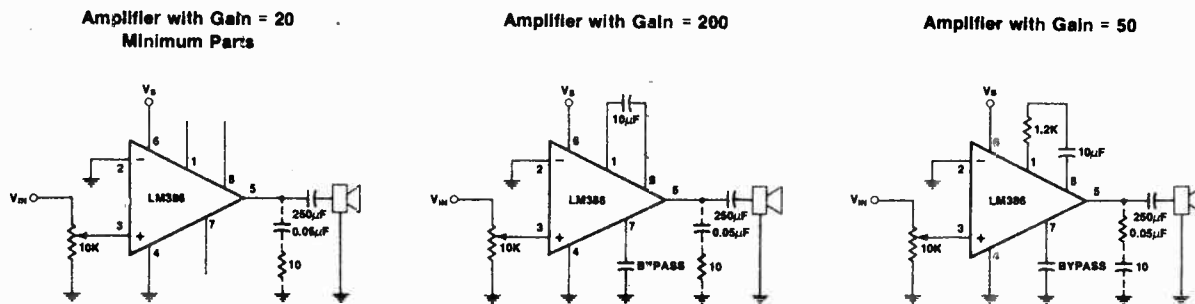
Note: If oscillation exists under some load conditions, add 10Ω and 0.05μF series network from pin 5 to ground.

# 555 278-1723 556 276-1728 TIMER DUAL TIMER

## GENERAL DESCRIPTION

The 555 is a highly stable device for generating accurate time delays or oscillation. Additional terminals are provided for triggering or resetting if desired. In the time delay mode of operation, the time is precisely controlled by one external resistor and capacitor. For astable operation as an oscillator, the free running frequency and duty cycle are accurately controlled with two external resistors and one capacitor. The circuit may be triggered and reset on falling waveforms, and the output circuit can source or sink up to 200 mA or drive TTL circuits. The 556 is a dual 555. The two timers operate independently of each other sharing only $V_{CC}$ and ground.

## FEATURES

- Timing from microseconds through hours
- Operates in both astable and monostable modes
- Adjustable duty cycle
- Output can source or sink 200 mA
- Output and supply TTL compatible
- Temperature stability better than 0.005% per °C
- Normally on and normally off output

## APPLICATIONS

- Precision timing
- Pulse generation
- Sequential timing
- Time delay generation
- Pulse width modulation
- Pulse position modulation
- Linear ramp generator

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage.................................................................±16V
Power Dissipation...........................................................600 mW
Operating Temperature Range.....................................0°C to +70°C
Storage Temperature Range...................................-65°C to +150°C
Lead Temperature (Soldering, 10 seconds)..........................300°C

## TYPICAL APPLICATION

## PIN CONNECTION



TOP VIEW

Dual-In-Line Package

TOP VIEW

556

Dual-In-Line Package

## TRUTH TABLE (IC555)

| PIN 2 TRIGGER | PIN 6 THRESHOLD | PIN 4 RESET | PIN 3 OUTPUT |
|---|---|---|---|
| H | X | H | L |
| L | X | H | H |
| H | L | H | L |
| X | X | L | L |

H = High Level. L = Low Level    X = Don't Care

### Relay Timer



### Automatic Headlight Turn-Off Circuit



### Warble Alarm Circuit
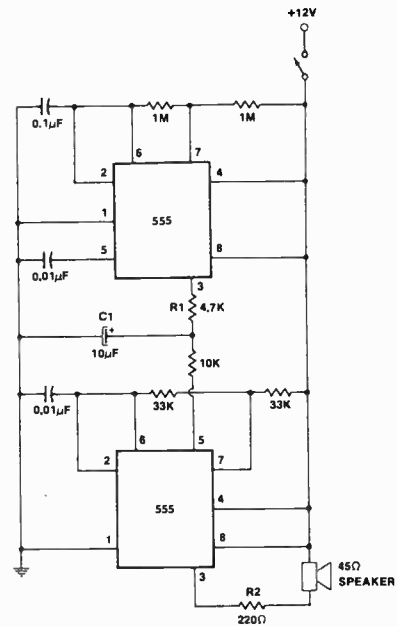
# VOLTAGE CONTROLLED OSCILLATOR

**566**
**276-1724**

## GENERAL DESCRIPTION

The 566 is a general purpose voltage controlled oscillator which may be used to generate square and triangular waves, the frequency of which is a very linear function of a control voltage. The frequency is also a function of an external resistor and capacitor.

## FEATURES

- Wide supply voltage range: 10 to 24 volts
- Very linear modulation characteristics
- High temperature stability
- Excellent supply voltage rejection
- 10 to 1 frequency range with fixed capacitor
- Frequency programmable by means of current, voltage, resistor or capacitor.

## APPLICATIONS

- FM modulation
- Signal generation
- Function generation
- Frequency shift keying
- Tone generation

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Power Supply Voltage | 26V |
| Power Dissipation | 300 mW |
| Operating Temperature Range | 0°C to 70°C |
| Lead Temperature (Soldering, 10 sec) | 300°C |

The 566 may be operated from either a single supply as shown in this test circuit, or from a split (±) power supply. When operating from a split supply, the square wave output (pin 4) is TTL compatible (2 mA current sink) with the addition of 4.7 kΩ resistor from pin 3 to ground.

A 0.001 μF capacitor is connected between pins 5 and 6 to prevent parasitic oscillations that may occur during VCO switching.

$$f_0 = \frac{2(V^+ - V_5)}{R1C1V^+}$$ where $2K < R1 < 20K$ and $V_5$ is voltage between pin 5 and pin 1.

## PIN CONNECTION
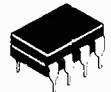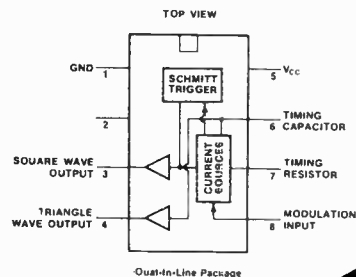


## TYPICAL APPLICATION

**1kHz And 10kHz TTL Compatible Voltage Controlled Oscillator**



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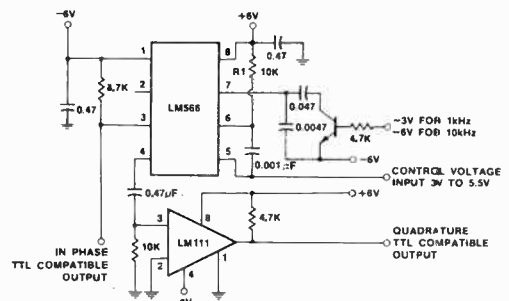
# TONE DECODER

**567**
**276-1721**

## GENERAL DESCRIPTION

The 567 is a general purpose tone decoder designed to provide a saturated transistor switch to ground when an input signal is present within the pass-band. The circuit consists of an I and Q detector driven by a voltage controlled oscillator which determines the center frequency of the decoder. External components are used to independently set center frequency, bandwidth and output delay.

## FEATURES

- 20 to 1 frequency range with an external resistor
- Logic compatible output with 100 mA current sinking capability
- Bandwidth adjustable from 0 to 14%
- High rejection of out of band signals and noise
- Immunity to false signals
- Highly stable center frequency
- Center frequency adjustable from 0.01 Hz to 500 kHz

## APPLICATIONS

- Touch tone decoding
- Precision oscillator
- Frequency monitoring and control
- Wide band FSK demodulation
- Ultrasonic controls
- Carrier current remote controls
- Communications paging decoders

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Supply Voltage | 9V |
| Power Dissipation | 300 mW |
| $V_8$ (Output Voltage) | 15V |
| $V_3$ (-Voltage At Input) | -10V |
| $V_3$ (+Voltage At Input) | $V_8$ +0.5V |
| Storage Temperature Range | -65°C to +150°C |
| Operating Temperature | 0°C to +70°C |

## PIN CONNECTION
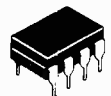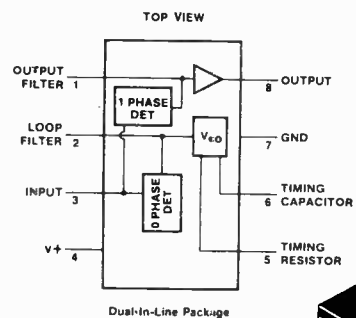


## TYPICAL APPLICATION

**Oscillator with Quadratrature Output**
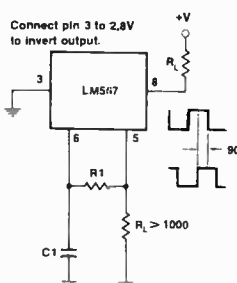


The center frequency of the tone decoder is equal to the free running frequency of the VCO.

This is given by $f_0 \geq \frac{1}{R_1 C_1}$

The bandwidth of the filter may be found from the approximation

$$BW = 1070 \sqrt{\frac{V_i}{f_0 C_2}} \quad \text{in \% of } f_0$$

Where:
$V_i$ = Input voltage (volts rms),
$V_i \leq 200$ mV
$C_2$ = Capacitance at Pin 2 (μF)

## 723
276-1740

# VOLTAGE REGULATOR

## GENERAL DESCRIPTION

The 723 is a voltage regulator designed primarily for series regulator applications. By itself, it will supply output currents up to 150 mA; but external transistors can be added to provide any desired load current. The circuit features extremely low standby current drain, and provision is made for either linear or foldback current limiting.

## FEATURES

- 150 mA output current without external pass transistor
- Output currents in excess of 10A possible by adding external transistors
- Input voltage 40V max
- Output voltage adjustable from 2V to 37V
- Can be used as either a linear or a switching regulator

The 723 is also useful in a wide range of other applications such as a shunt regulator, a current regulator or a temperature controller.

## ABSOLUTE MAXIMUM RATINGS

Pulse Voltage from $V^+$ to $V^-$ (50 ms) ................................... 50V
Continuous Voltage from $V^+$ to $V^-$ ................................... 40V
Input-Output Voltage Differential................................... 40V
Maximum Amplifier Input Voltage (Either Input)................................... 7.5V
Maximum Amplifier Input Voltage (Differential)................................... 5V
Current from $V_z$ ................................... 25 mA
Current from $V_{REF}$ ................................... 15 mA
Internal Power Dissipation Metal Can ................................... 800 mW
    Cavity DIP................................... 900 mW
    Molded DIP ................................... 660 mW
Operating Temperature Range................................... 0°C to +70°C
Storage Temperature Range Metal Can ................................... -65°C to +150°C
    DIP ................................... -55°C to +125°C
Lead Temperature (Soldering, 10 sec)................................... 300°C

## PIN CONNECTION
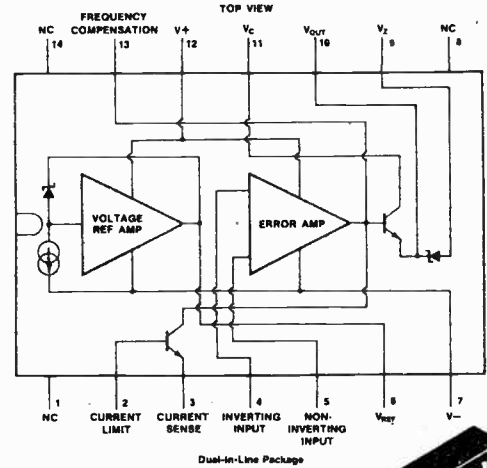


## TYPICAL APPLICATION

**Basic Low Voltage Regulator**
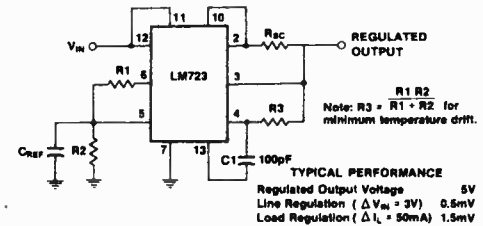


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## 741
276-007
276-010

# OPERATIONAL AMPLIFIER

## GENERAL DESCRIPTION

The 741 series are general purpose operational amplifiers which feature improved performance over industry standards.

The amplifiers offer many features which make their application nearly foolproof: overload protection on the input and output, no latch-up when the common mode range is exceeded, as well as freedom from oscillations.

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage................................... ±16V
Power Dissipation................................... 500 mW
Differential Input Voltage................................... ±30V
Input Voltage................................... ±15V
Output Short Circuit Duration................................... Indefinite
Operating Temperature Range................................... 0°C to +70°C
Storage Temperature Range................................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds)................................... 300°C

## TYPICAL APPLICATION

**Non-Inverting Amplifier**
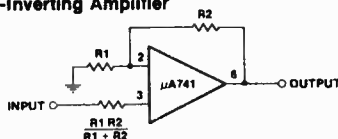


## PIN CONNECTION
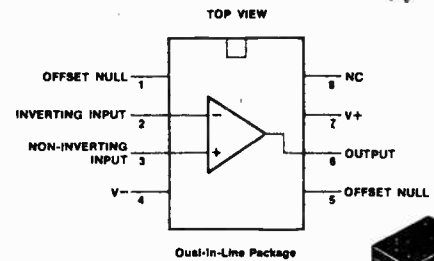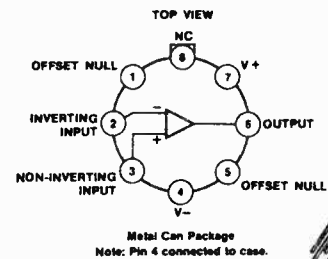
# DUAL OPERATIONAL AMPLIFIER

**1458**
**276-038**

## GENERAL DESCRIPTION

The 1458 is a general purpose dual operational amplifier. The two amplifiers share a common bias network and power supply leads. Otherwise, their operation is completely independent. Features include:

## FEATURES

- No frequency compensation required.
- Short-circuit protection
- Wide common-mode and differential voltage ranges
- Low-power consumption
- No latch up when input common mode range is exceeded

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage ........................................................... ±16V
Power Dissipation ................................................... 400 mW
Differential Input Voltage ...........................................±30V
Input Voltage ...............................................................±15V
Output Short-Circuit Duration ........................... Indefinite
Operating Temperature Range ....................... 0°C to 70°C
Storage Temperature Range ................... -65°C to 150°C
Lead Temperature (Soldering, 10 sec)...................300°C

## PIN CONNECTION

TOP VIEW



Dual-In-Line Package

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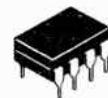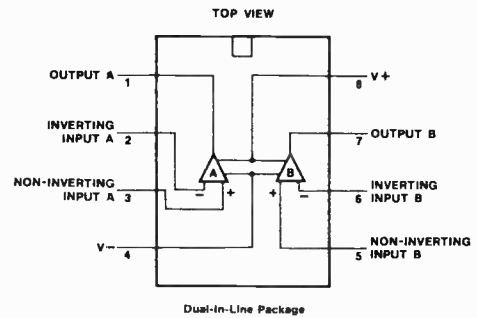
# QUAD OPERATIONAL NORTON AMPLIFIER

**3900**
**276-1713**

## GENERAL DESCRIPTION

The 3900 series consists of four independent, dual input, internally compensated amplifiers which were designed specifically to operate off of a single power supply voltage and to provide a large output voltage swing. These amplifiers make use of a current mirror to achieve the non-inverting input function. Application areas include: ac amplifiers, RC active filters, low frequency triangle, squarewave and pulse waveform generation circuits, tachometers and low speed, high voltage digital logic gates.

## FEATURES

- Wide single supply voltage 4 $V_{DC}$ to 36 $V_{DC}$
  range or dual supplies ±2 $V_{DC}$ to ±18 $V_{DC}$
- Supply current drain independent of supply voltage
- Low input biasing current 30 nA
- High open-loop gain 70 dB
- Wide bandwidth 2.5 MHz (Unity Gain)
- Large output voltage swing (V⁺ -1) $V_{p-p}$
- Internally frequency compensated for unity gain
- Output short-circuit protection

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage (Wide Range, Single Supply).......................32 $V_{DC}$
Supply Voltage (Wide Range, Dual Supply) ......................±16 $V_{DC}$
Power Dissipation ($T_A = 25°C$)
  Flat Pack ........................................................... 570 mW
Input Currents, $I_{IN}^+$ or $I_{IN}^-$ ...............................20 $mA_{DC}$
Output Short-Circuit Duration—One Amplifier.......................... Continuous
  $T_A = 25°C$ (See Application Hints)
Operating Temperature Range .......................0°C to +70°C
Storage Temperature Range .................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds)...................300°C

## PIN CONNECTION

TOP VIEW



Dual-In-Line and Flat Package
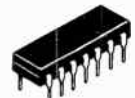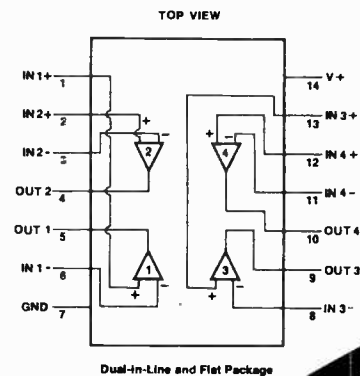
## TYPICAL APPLICATIONS

**Basic Instrumentation Amplifier**



$$A_V = \frac{2R3}{R1}$$
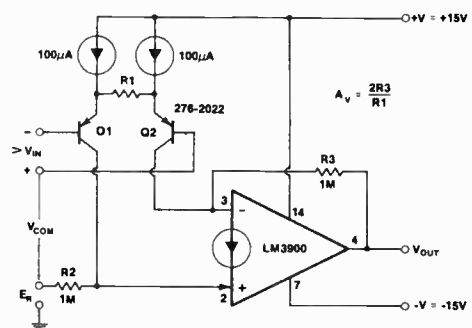
## 3900 (276-1713) TYPICAL APPLICATIONS (Con't)

**Bi-Quad Active Filter**
**(2nd Degree State-Variable Network)**
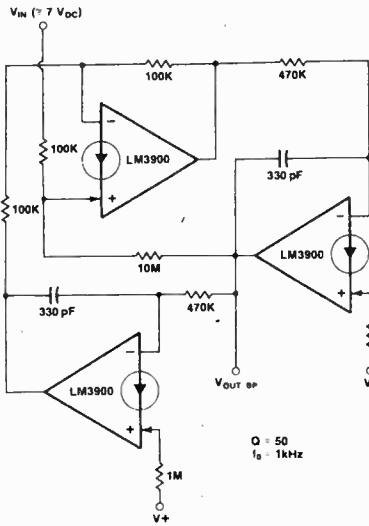
**Voltage Controlled Current Source**
**(Transconductance Amplifier)**
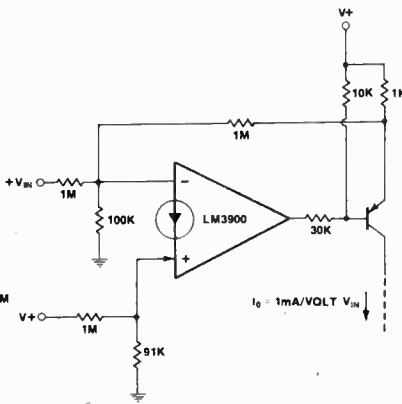
**High $V_{IN}$, Low ($V_{IN} - V_{OUT}$) Self Regulator**
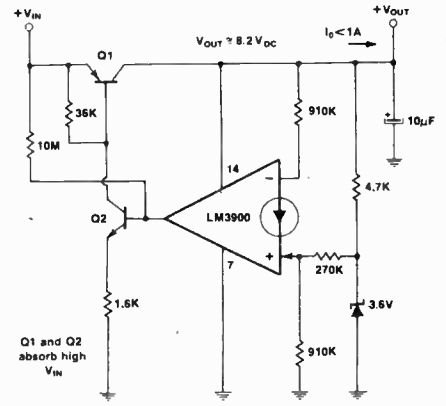
**Ground-Referencing a**
**Differential Input Signal**
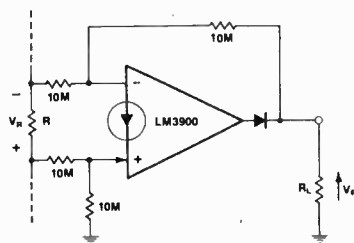
**Voltage Regulator**
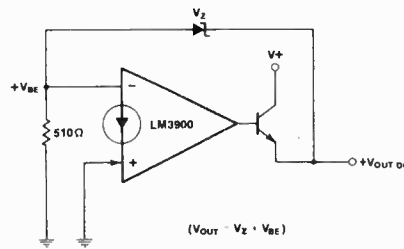
**Fixed Current Sources**
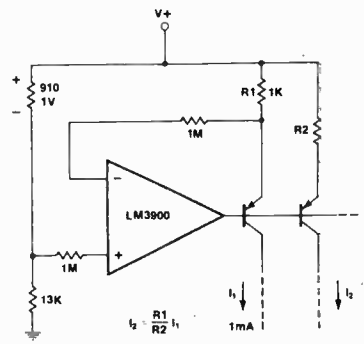
**Voltage-Controlled Current Sink**
**(Tranconductance Amplifier)**
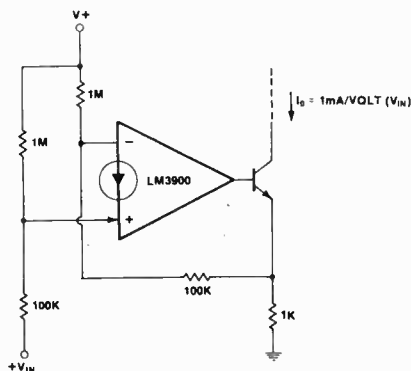
**Buffer Amplifier**
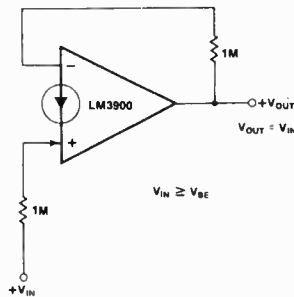
**Tachometer**
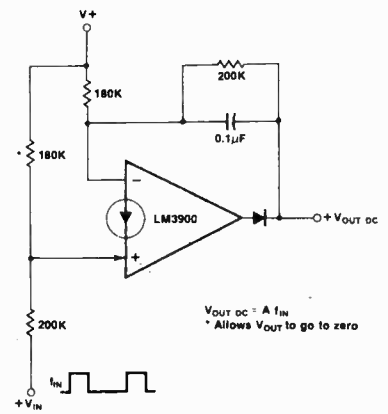
# LED FLASHER/OSCILLATOR

**3909**
**276-1705**

## GENERAL DESCRIPTION

The 3909 is a monolithic oscillator specifically designed to flash Light Emitting Diodes. By using the timing capacitor for voltage boost, it delivers pulses of 2 or more volts to the LED while operating on a supply of 1.5V or less. The circuit is inherently self-starting, and requires addition of only a battery and capacitor to function as a LED flasher.

It has been optimized for low power drain and operation from weak batteries so that continuous operation life exceeds that expected from battery rating.

Application is made simple by inclusion of internal timing resistors and an internal LED current limit resistor.

Timing capacitors will generally be of the electrolytic type, and a small 3V rated part will be suitable for any LED flasher using a supply up to 6V. However, when picking flash rates, it should be remembered that some electrolytics have very broad capacitance tolerances, for example -20% to +100%.

## FEATURES

- Operation over one year from one C size flashlight cell
- Bright, high current LED pulse
- Minimum external parts
- Low voltage operation, from just over 1V to 5V
- Low current drain, averages under 0.5 mA during battery life
- Powerful; as an oscillator directly drives an 8Ω speaker

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Power Dissipation | 500 mW |
| V+ Voltage | 6.4V |
| Operating Temperature Range | -25°C to +70°C |
| Pulse Width | 6 ms |
| Peak LED Current | 45 mA |
| Operating Current | 75 mA |
| Flash Frequency | 1.3 Hz |
| High Flash Frequency | 1.1 kHz |

## PIN CONNECTION



TOP VIEW

Dual-In-Line Package

## TYPICAL APPLICATIONS

**Warning Flasher High Voltage Powered**



**3V Flasher**



Note: Normal flash rate: 1Hz.
Average $I_{DRAIN}$ = 0.77mA

**1.5V Flasher**



Note: Normal flash rate: 1 Hz
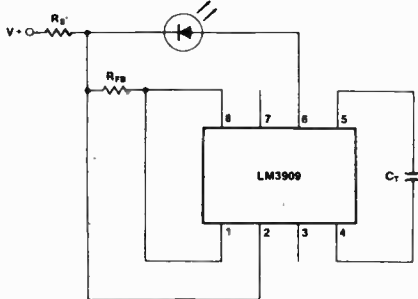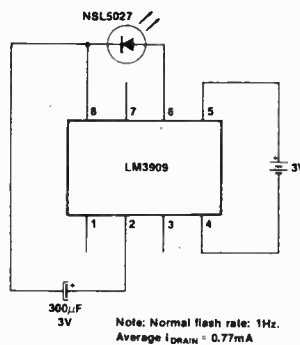


### TYPICAL OPERATING CONDITIONS

| V+ | NORMAL FLASH Hz | C_T | R_S 1W | R_FB | V+_RANGE |
|---|---|---|---|---|---|
| 6V | 2 | 400μF | 1K | 1.5K | 5-25V |
| 15V | 2 | 180μF | 3.9K | 1K | 13-50V |
| 100V | 1.7 | 180μF | 43K | 1K | 85-200V |
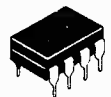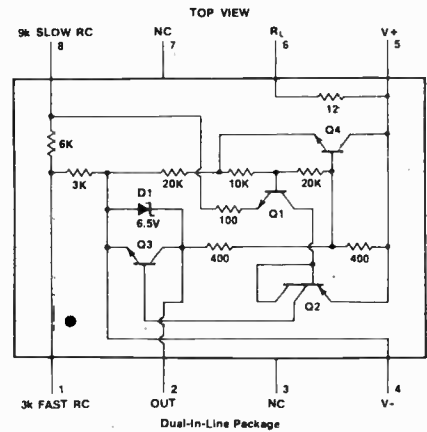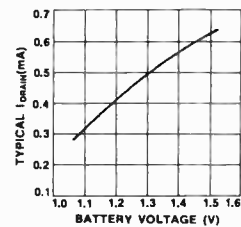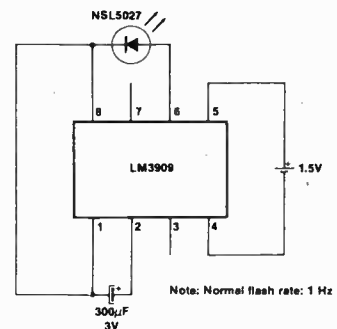
### ESTIMATED BATTERY LIFE
(CONTINUOUS 1.5V FLASHER OPERATION)

| SIZE CELL | TYPE | |
|---|---|---|
| | STANDARD | ALKALINE |
| AA | 3 MONTHS | 6 MONTHS |
| C | 7 MONTHS | 15 MONTHS |
| D | 1.3 YEARS | 2.6 YEARS |

Note: Estimates are made from our tests and manufacturers data. Conditions are fresh batteries and room temperature. Clad or "leak-proof" batteries are recommended for any application of five months or more. Nickel Cadmium cells are not recommended.

## 3911
## 276-1706

# TEMPERATURE CONTROLLER

## GENERAL DESCRIPTION

The 3911 is a highly accurate temperature measurement and/or control system for use over a -25°C to +85°C temperature range. Fabricated on a single monolithic chip, it includes a temperature sensor, a stable voltage reference and an operational amplifier.

The output voltage of the 3911 is directly proportional to temperature in degrees Kelvin at 10 mV/°K. Using the internal op amp with external resistors any temperature scale factor is easily obtained. By connecting the op amp as a comparator, the output will switch as the temperature transverses the set-point making the device useful as an on-off temperature controller.

An active shunt regulator is connected across the power leads of the 3911 to provide a stable 6.8V voltage reference for the sensing system. This allows the use of any power supply voltage with suitable external resistors.

## FEATURES

- Uncalibrated accuracy ±10°C
- Internal op amp with frequency compensation
- Linear output of 10 mV/°K (10 mV/°C)
- Can be calibrated in degrees Kelvin, Celsius or Fahrenheit
- Output can drive loads up to 35V

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Supply Current (Externally Set) | 10 mA |
| Output Collector Voltage V++ | 36V |
| Feedback Input Voltage Range | 0V to +7.0V |
| Output Short Circuit Duration | Indefinite |
| Operating Temperature Range | -25°C to +85°C |
| Storage Temperature Range | -65°C to +150°C |
| Lead Temperature (Soldering, 10 seconds) | 300°C |

## PIN CONNECTION



TOP VIEW

Dual-In-Line Package

**Proportioning Temperature Controller**



Note 1: C1 determines proportioning frequencies

$$f = \frac{1}{2\,R4\,C1}$$

Note 2: $R10 = \frac{V_8\,7}{0.0015}$

Note 3: Either V- or V+ can be grounded.

## TYPICAL APPLICATIONS

**Ground Referred Centigrade Thermometer**



R1 = 1000 (V+ -3.0V)
R2 = 500 (V- -4.0V)

* Trims out initial zener tolerance. Set output to read °C.

**Basic Temperature Controller**



*Output goes negative on temperature increase.

$R_8 = (V^+ -6.8V)K$
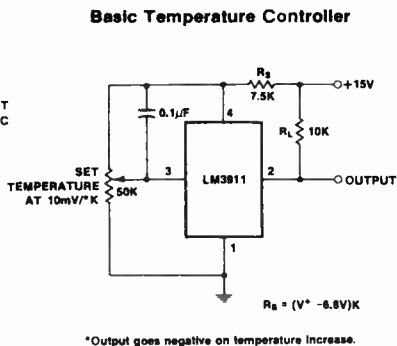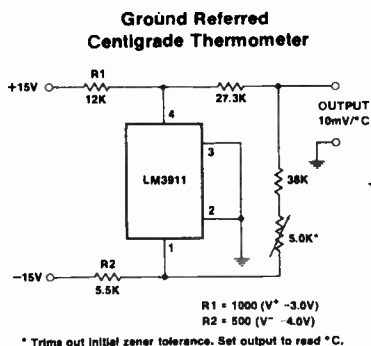
**Basic Thermometer for Negative Supply**



$R_8 = (V^- -6.8V) \times 10^3 \Omega$
Note: Load current to GND is supplied through $R_8$.
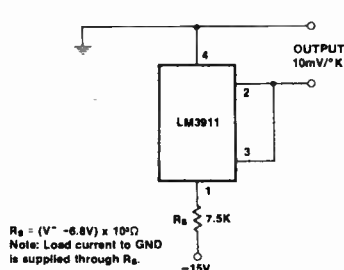
**Basic Thermometer for Positive Supply**



$R_8 = (V^- -6.8V) \times 10^3 \Omega$
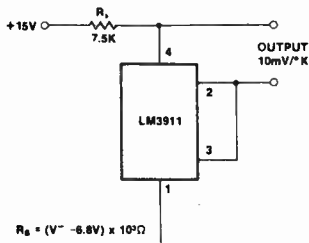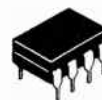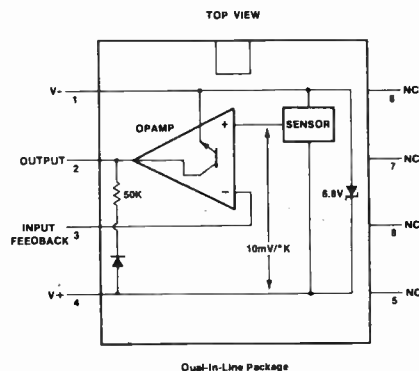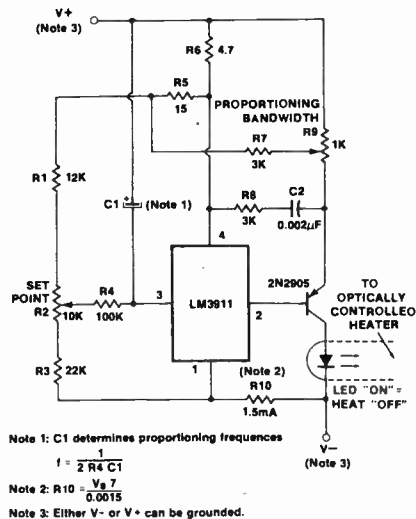
**Increased Gain and Output Drive**
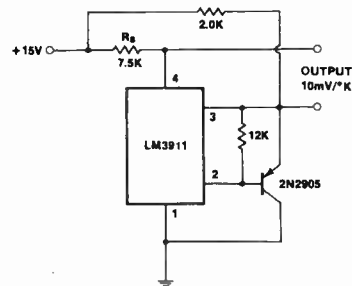
# MOS/LSI DIGITAL CLOCK/CALENDAR RADIO TIMER

**7001**
**276-1756**

## GENERAL DESCRIPTION

The 7001 is an alternating time (8 second display) and calendar (2 second display) chip. To construct this clock/calendar circuit you need only a single power supply, displays and standard interface components. It is compatible with 4 or 6 digit, 7 segment, common cathode, multiplexed displays.

## FEATURES

28/30/31 day calendar, 12/24 hour clock and 24 hour alarm with 10 minute snooze control; 50/60Hz operation; 9 hour 59 minute timer; on chip 60Hz back up; 1Hz output and an inhibit input to wire OR the digit and segment outputs to other chips. The setting of any one counter (time, alarm, calendar, timer) does not affect the contents of any other counter.

## ABSOLUTE MAXIMUM RATINGS
## All specifications are at $T_A$ = 25°C

INPUTS:
$IN_1$, $IN_2$, $IN_3$
$V_{IN}$ "1" level ........................................................... +0.3 V
$V_{IN}$ "0" level ...................................................... $V_{DD}$ +0.5 V
60 Hz IN, OSC IN, Display Enable
$V_{IN}$ "1" level ........................................................... +0.3 V
$V_{IN}$ "0" level ...................................................... $V_{DD}$ +0.5 V
All Inputs @ $V_{IN}$ = -17 V ..................................... 25 μA

OUTPUTS:
Radio Out, Alarm Out
$I_{OUT}$ "1" level @ $V_{OUT}$ = -1.0 V ..................... 0.5 mA (MIN)
$I_{OUT}$ "0" level @ $V_{OUT}$ = $V_{DD}$ ......................... 25 μA
$D_1$ to $D_6$, Sa to Sg, 1 Hz sq. wave, AM, PM
$I_{OUT}$ "1" level @ $V_{OUT}$ = -4.0 V ..................... 5.0 mA (MIN)
$I_{OUT}$ "1" level @ $V_{OUT}$ = -1.0 V ..................... 1.0 mA (MIN)
$I_{OUT}$ "0" level @ $V_{OUT}$ = -35.0 V ..................... 25 μA
OSC Out
$I_{OUT}$ "1" level @ $V_{OUT}$ = -1.0 V ..................... 0.4 mA (MIN)
$I_{OUT}$ "0" level @ $V_{OUT}$ = $V_{DD}$ +1.0 V ........... 40.0 μA (MIN)

### PIN CONNECTION

/TOP VIEW

| Pin | | Pin |
|---|---|---|
| $V_{SS}$ 1 | | 28 1Hz SQUARE WAVE |
| RADIO OUT 2 | | 27 $V_{DD}$ |
| ALARM OUT 3 | | 26 Osc IN |
| IN2 4 | | 25 Osc OUT |
| IN1 5 | | 24 $V_{DD}$ |
| IN3 6 | | 23 60 Hz IN |
| D6 7 | CT 7001 | 22 DISPLAY ENABLE |
| D1 8 | | 21 Sg |
| D2 9 | | 20 Sf |
| D3 10 | | 19 Se |
| D4 11 | | 18 Sa |
| D5 12 | | 17 Sb |
| AM 13 | | 16 Sc |
| PM 14 | | 15 Sd |

## TYPICAL APPLICATION (See Page 48)

**Project Parts List for Schematic on Page 48**

This package contains a complete circuit card ready for parts to be added. To construct this Project you'll need the following parts :

| SYMBOL | DESCRIPTION | QTY. | CAT. NO. | SYMBOL | DESCRIPTION | QTY. | CAT. NO. |
|---|---|---|---|---|---|---|---|
| C1 | 220 uF/35V Electrolytic Capacitor | 1 | 272-1029 | R6, 12 | 330 ohm ½ Watt Resistor | 2 | 271-000 |
| C2 | 0.01 uF (10,000 pF) Disc Capacitor | 1 | 272-131 | R13 | 470 ohm ½ Watt Resistor | 1 | 271-000 |
| C3 | 100 pF Disc Capacitor | 1 | 272-123 | R14 – 16, 20 | 120K ½ Watt Resistor | 4 | 271-000 |
| C4 | 47 pF Disc Capacitor | 1 | 272-121 | R17 | 150 ohm ½ Watt Resistor | 1 | 271-000 |
| CR1, 4 | 1N4001 Rectifier Diode | 2 | 276-1101 | R22 | 47K ½ Watt Resistor | 1 | 271-000 |
| CR2 | Bridge Rectifier | 1 | 276-1151 | S1 | 2 Pole, 6 Position Rotary Switch | 1 | 275-1386 |
| CR3, 6, 7, | | | | S2, 3, 7 | SPST Miniature Push Button Switch | 3 | 275-1547 |
| 13 – 23  1) | 1N914 Diode | 14 | 276-1122 | S4, 6 | SPST Toggle Switch | 2 | 275-324 |
| CR8 – 12 | Subminiature Red LED | 5 | 276-042 | S5 | SPDT Toggle Switch, Neutral Center | 1 | 275-325 |
| D1 – D6 | Common Cathode LED 7 Segment Display | 6 | 276-062 | T1 | 12V/300mA Transformer | 1 | 275-1385 |
| IC1 | Clock/Calendar/Radio Timer | | | 3) | Experimenter's Cabinet | 1 | 270-261 |
| | Integrated Circuit 1756 | 1 | 276-1756 | | 9 V Battery Clip | 1 | 270-326 |
| IC2, 3 | Segment Driver Integrated Circuit 501 | 2 | 276-1701 | | 8 AA Cell Battery Holder | 1 | 270-387 |
| IC4 | Hex Digit Driver Integrated Circuit 500 | 1 | 276-1702 | | AC Socket | 1 | 270-642 |
| K1 | Miniature DPDT Relay | 1 | 275-206 | 4) | ½" (12.7 mm) Spacer | 8 | 270-1393 |
| LS1 | 8 ohm Speaker | 1 | 40-245 | 4) | 28 Pin Dual In-Line Socket | 1 | 276-1997 |
| Q1, 2, 3 | Transistor, 2031 | 3 | 276-2031 | 4) | 14 Pin Dual In-Line Socket | 3 | 276-1999 |
| Q4, 5, 6 | Transistor, 2033 | 3 | 276-2033 | | Universal Display Board | 1 | 277-108 |
| R1 | 82 ohm ½ Watt Resistor | 1 | 271-000 | | Project Board (PC Board) | 1 | 277-109 |
| R2, 18, 19, | | | | | No. 22 Hookup Wire | 1 | 278-1296 |
| 21, 23 | 12K ½ Watt Resistor | 5 | 271-000 | | Line Cord | 1 | 278-1255 |
| R3 | 27K ½ Watt Resistor | 1 | 271-000 | | AA Battery | 8 | 23-453 |
| R4  2) | 50K Trim Potentiometer | 1 | 271-219 | | Miscellaneous Hardware | | |
| R5 | 1.2K ½ Watt Resistor | 1 | 271-000 | | | | |

**NOTES:** 1) CR21 and CR22 are optional.     3) This is a suggested cabinet to use for this Project.
      2) 10K Resistor is optional for the 50K "Trim Pot".     4) These parts are optional.
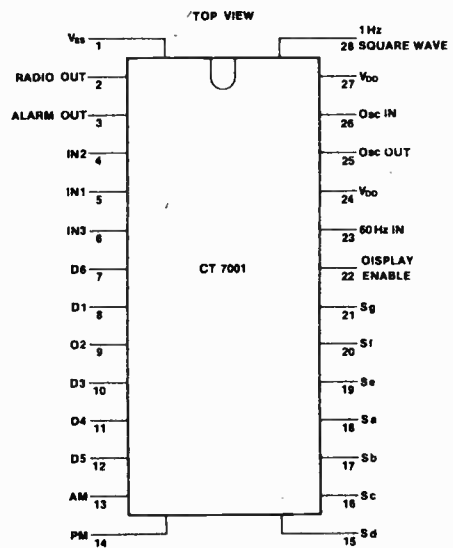
Digital Clock/Calendar Radio Timer
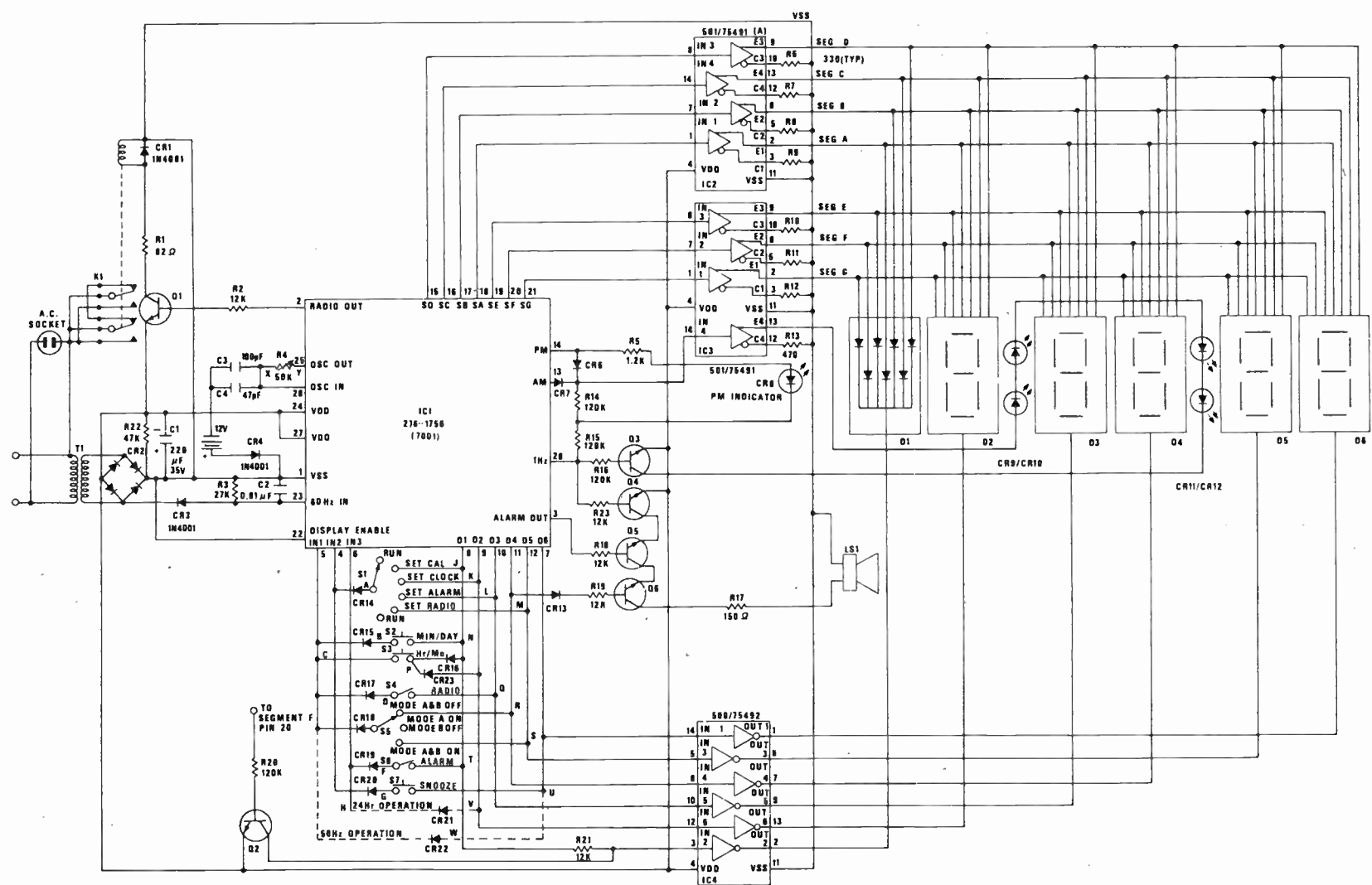
# 5 V VOLTAGE REGULATOR
# 12 V VOLTAGE REGULATOR
# 15 V VOLTAGE REGULATOR

**7805** 276-1770
**7812** 276-1771
**7815** 276-1772

## GENERAL DESCRIPTION

This series of three terminal regulators is available with several fixed output voltages making them useful in a wide range of applications. One of these is local on card regulation, eliminating the distribution problems associated with single point regulation. The voltages available allow these regulators to be used in logic systems, instrumentation, HiFi, and other solid state electronic equipment. Although designed primarily as fixed voltage regulators these devices can be used with external components to obtain adjustable voltages and currents.

This series will allow over 1.5A load current if adequate heat sinking is provided. Current limiting is included to limit the peak output current to a safe value. Safe area protection for the output transistor is provided to limit internal power dissipation. If internal power dissipation becomes too high for the heat sinking provided, the thermal shutdown circuit takes over preventing the IC from overheating.

## FEATURES

- Internal thermal overload protection
- No external components required
- Output transistor safe area protection
- Internal short circuit current limit

## VOLTAGE RANGE

7805.................................... 5V
7812.................................... 12V
7815.................................... 15V

## ABSOLUTE MAXIMUM RATINGS

Input Voltage
  (Output Voltage Options 5V through 18V)................................ 35V
  (Output Voltage Option 24V) ....................................... 40V
Internal Power Dissipation...........................Internally Limited
Operating Temperature Range .......................0°C to +70°C
Maximum Junction Temperature .....................................150°C
Storage Temperature Range ............. ................ -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ...............................300°C

## PIN CONNECTION

TOP VIEW



OUTPUT (2)
GND (3)
INPUT (1)

GND (3)

TO-220 (T)

**Current Regulator**



OUTPUT CURRENT = $\frac{V_{OUT}}{R1}$

## TYPICAL APPLICATIONS
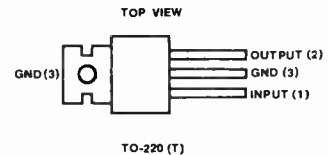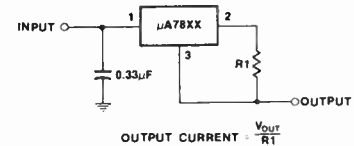
### ± Tracking Voltage Regulator
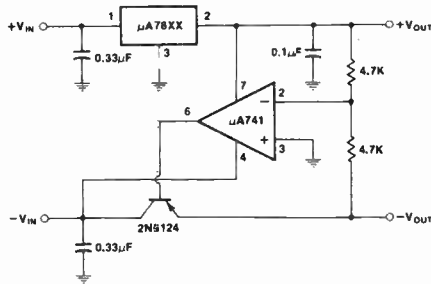


### High Output Current, Short Circuit Protected
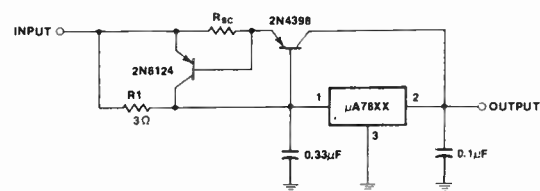


### Switching Regulator
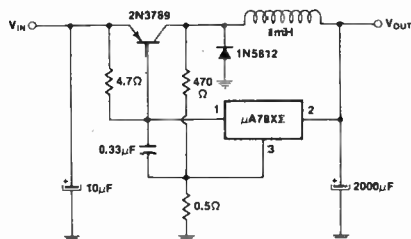


### Positive and Negative Regulator



49
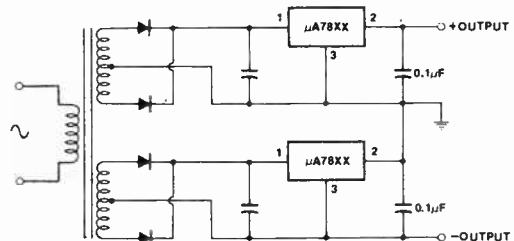
## 50252
## 276-1751

# MOS/LSI DIGITAL ALARM CLOCK

## GENERAL DESCRIPTION

This 50252 device is a versatile MOS/LSI clock circuit. To construct a digital alarm clock, you need only a simple power supply, display and standard interface components. It is compatible with 4 or 6 digit, 7 segment multiplexed displays. The scanning oscillator is completely internal and requires no external components. The alarm operates in a 24 hour mode, which allows the alarm to be disabled and immediately reenabled to activate 24 hours later. The snooze inhibits an activated alarm for 10 minutes. The alarm output is a tone, thus eliminating an external oscillator.

**CAUTION** These devices are extremely susceptible to damage from static charge. We recommend that you handle them by the ends. DO NOT TOUCH THE PINS.

## APPLICATIONS

- AM/PM and circuit activity signal
- Intensity control
- 12 hr/60 Hz or 24 hr./50Hz capability

## RECOMMENDED OPERATING CONDITIONS FREE AIR:

Operating Voltage $V_{DD}$
Relative to $V_{SS}$ .................................................................. -18 V to -9 V
Input Logic Levels
"1" Logic Level ...................................... $V_{SS}$ -0.3 V to $V_{SS}$ +0.3V
"0" Logic Level ................................................ -18 V to $V_{DD}$ +0.5 V

## ABSOLUTE MAXIMUM RATINGS

Voltage on any Pin Relative to $V_{SS}$ ..................................... plus 0.3 V to -18 V
Output Voltage Breakdown on any
Output Relative to $V_{SS}$ .................................................... -18 V @10 µA
Operating Free-Air Temperature Range ...................................... 0°C to 55°C

## PIN CONNECTION



## TYPICAL APPLICATION
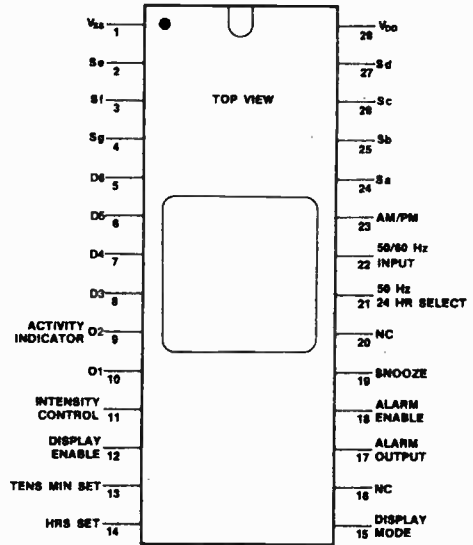
### Digital Alarm Clock
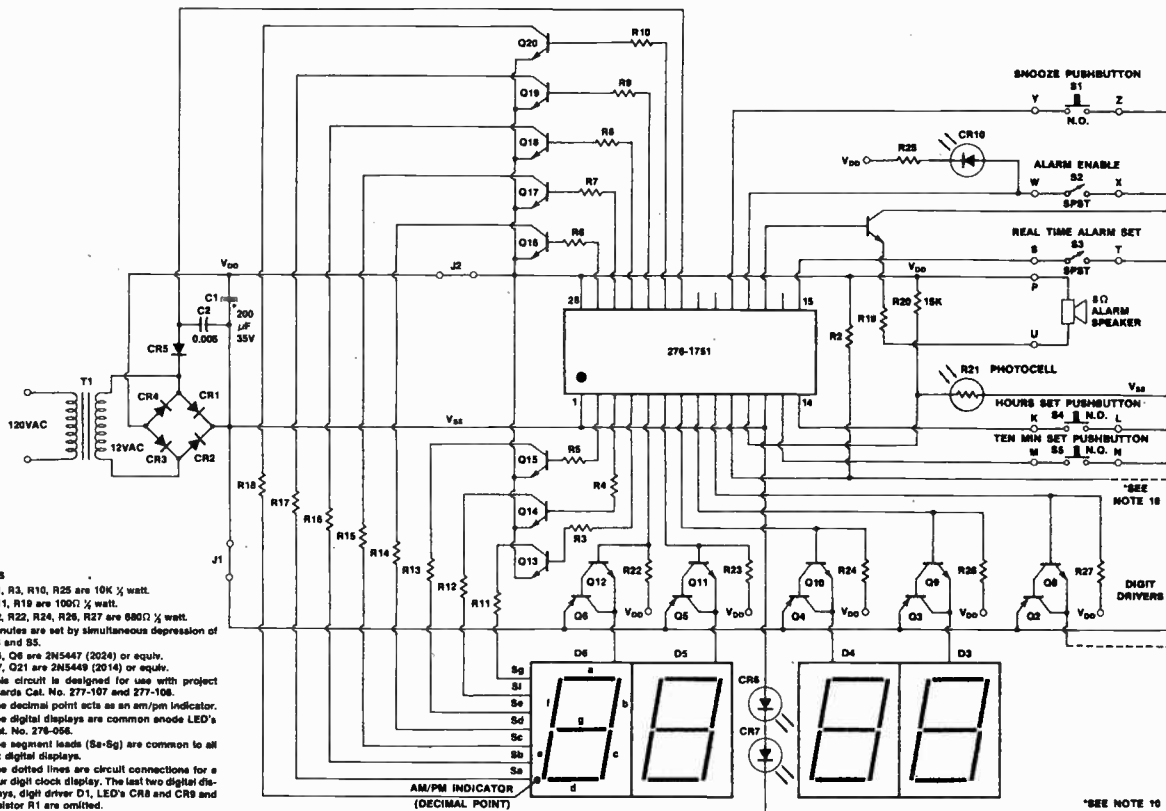


NOTES
1. R1, R3, R10, R25 are 10K ½ watt.
2. R11, R19 are 100Ω ½ watt.
3. R2, R22, R24, R26, R27 are 680Ω ½ watt.
4. Minutes are set by simultaneous depression of S4 and S5.
5. Q1, Q6 are 2N5447 (2024) or equiv. Q7, Q21 are 2N5449 (2014) or equiv.
6. This circuit is designed for use with project boards Cat. No. 277-107 and 277-108.
7. The decimal point acts as an am/pm indicator.
8. The digital displays are common anode LED's Cat. No. 276-056.
9. The segment leads (Sa-Sg) are common to all six digital displays.
10. The dotted lines are circuit connections for a four digit clock display. The last two digital displays, digit driver D1, LED's CR8 and CR9 and resistor R1 are omitted.

# QUAD LED SEGMENT DRIVER
# HEX LED DIGIT DRIVER

**75491**
276-1701

**75492**
276-1702

## PIN CONNECTION

TOP VIEW



75491



75492

## GENERAL DESCRIPTION

The 75491 and 75492 are designed to interface MOS logic to common cathode light-emitting diode readouts in serially addressed multi-digit displays. Using a segment address and digit scan LED drive method in a time multiplexing system results in a minimizing of the number of required drivers.

## FEATURES

- Low Input Current Requirement for MOS Compatibility
- Low Standby Power Drain
- Source or Sink Current Capability of 50 mA for 75491
- Sink Current Capability of 250 mA for 75492
- Four High-Gain Darlington Drivers in a Single Package—75491
- Six High-Gain Darlington Drivers in a Single Package—75492

## ABSOLUTE MAXIMUM RATINGS
($T_A$ = 0 to +70°C unless otherwise noted.)

|  | 75491 | 75492 |
|---|---|---|
| Bias Supply Voltage | 10 Vdc | 10 Vdc |
| Input Voltage | -5.0 to $V_{SS}$ Vdc | -5.0 to $V_{SS}$ Vdc |
| Collector Voltage | 10 Vdc | 10 Vdc |
| Collector-to-Emitter Voltage | 10 Vdc | —Vdc |
| Collector-to-Input Voltage | 10 Vdc | 10 Vdc |
| Emitter Voltage ($V_{IN} \geqslant 5.0$ Vdc) | 10 Vdc | —Vdc |
| Emitter-to-Input Voltage | 5.0 Vdc | —Vdc |
| Continuous Collector Current |  |  |
| (Each Collector) | 50 mA | 250 mA |
| (All Collectors) | 200 mA | 600 mA |

Power Dissipation (Package Limitation)
Ceramic and Plastic Dual In-Line Packages ....................................... 830 mW
Derate above $T_A$ = +25°C ............................................................. 6.6 mW/°C
Operating Temperature Range ......................................................... 0 to +70°C
Storage Temperature Range ......................................................... -65+ to +150°C

## TYPICAL APPLICATIONS

**Strobed NOR Driver**
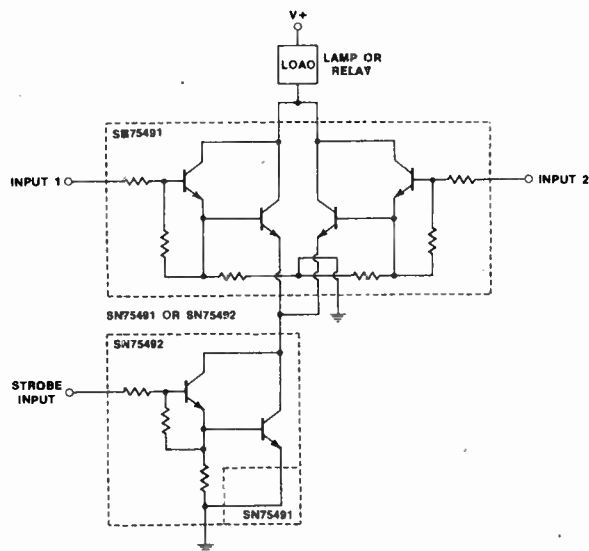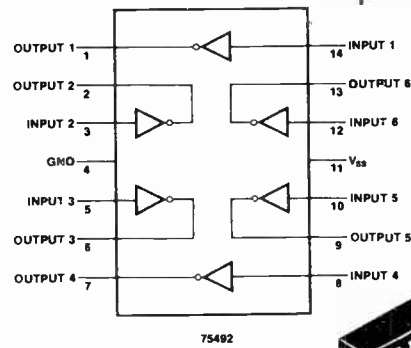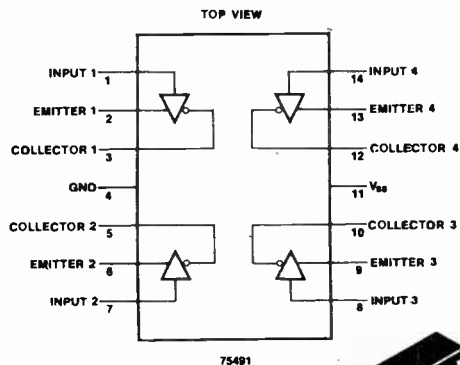


**Quad or Hex Relay Driver**
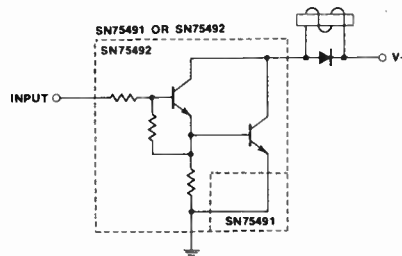


**Quad or Hex Lamp Driver**
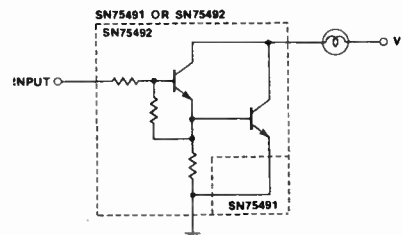
## 21L02
### 276-2501

# 1024-BIT STATIC RANDOM ACCESS MEMORY

## GENERAL DESCRIPTION

The 21L02 is a 1024-bit random access memory fabricated with high-density, high-reliability, N-channel, silicon-gate technology. For ease of use, the device operates from a single power supply, is directly compatible with TTL and DTL, and requires no clocks or refreshing because of static operation.

This device contains circuitry to protect the inputs against damage due to high static voltages or electric fields; however, it is advised that normal precautions be taken to avoid application of any voltage higher than maximum rated voltages to this high impedance circuit.

## FEATURES

- 1024 Word by 1 Bit Organization
- Access Time = 450 nA or less
- Low Power Dissipation—150mW Typical
- Static Operation
- Single +5-Volt Supply
- Direct TTL/DTL Compatibility
- Three-State Output
- Chip Enable for Memory Expansion
- Cost Effective Data Storage

## PIN CONNECTION

TOP VIEW



| | |
|---|---|
| A6   1 | 16   A7 |
| A5   2 | 15   A8 |
| R/W   3 | 14   A9 |
| A1   4 | 13   $\overline{CE}$ |
| A2   5 | 12   $D_{OUT}$ |
| A3   6 | 11   $D_{IN}$ |
| A4   7 | 10   $V_{CC}$ |
| A0   8 | 9   $V_{SS}$ |

## RECOMMENDED DC OPERATING CONDITIONS
### (Referenced to $V_{SS}$)

Supply Voltage.........................................4.75 - 5.25 Vdc (MIN-MAX)
Input Low Voltage ................................. -0.3 - 0.65 Vdc (MIN-MAX)
Input High Voltage ............................... 2.2 - 5.25 Vdc (MIN-MAX)

## ABSOLUTE MAXIMUM RATINGS
### (Referenced to $V_{SS}$)

Supply Voltage.......................................... -0.3 to plus 7.0 Vdc
Input Voltage............................................ -0.3 to plus 7.0 Vdc
Operating Temperature Range............................ 0°C to plus 70°C
Storage Temperature Range............................ -55°C to plus 150°C

## LOGIC DIAGRAM
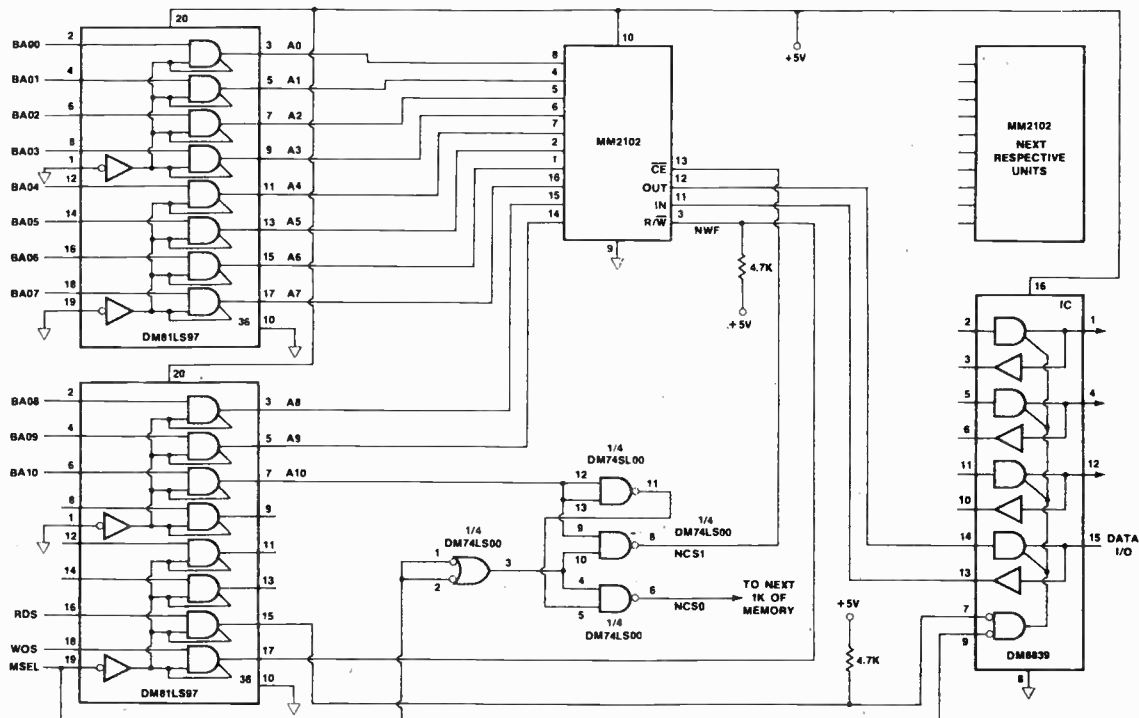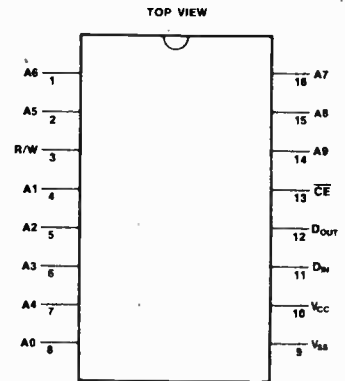
# QUADRUPLE TWO-INPUT NAND GATE

**7400**
276-1801

## GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

## FEATURES

- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Average Propagation Delay 13 ns
- Fan Out 10
- Average Power Dissipation 10 mW per gate

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$ ............................................................... 5.25V
Input Voltage ............................................................... 5.5V
Storage Temperature Range ................................................... -65°C to +150°C
Fan-Out .................................................................... 10
Lead Temperature (Soldering, 10 sec) ...................................... 300°C
Supply Voltage ($V_{CC}$) ............................................... 4.75—5.25V
Temperature ($T_A$) ....................................................... 0°C to 70°C

TOP VIEW

$Y = \overline{AB}$

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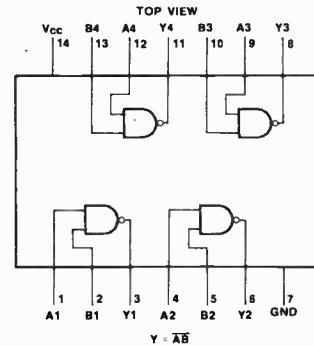
# QUAD TWO-INPUT NOR GATE

**7402**
276-1811

## GENERAL DESCRIPTION

The 7402 is a quad 2-input NOR gate utilizing TTL (Transistor-Transistor-Logic) to achieve high speed at nominal power dissipation.

## FEATURES

- Input Clamping Diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 14 mW per gate

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$ ............................................................... 5.25V
Input Voltage ............................................................... 5.5V
Operating Temperature Range ................................................ 0°C to 70°C
Storage Temperature Range ................................................. -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ...................................... 300°C

## PIN CONNECTION

TOP VIEW

$Y = \overline{A \cdot B}$

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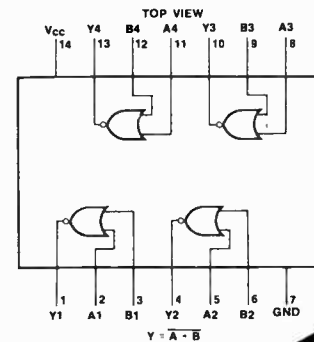
# HEX INVERTER

**7404**
276-1802

## GENERAL DESCRIPTION

The 7404 is a hex inverter utilizing TTL to achieve high speed at nominal power dissipation. It is totally compatible with other Series 74 devices.

## FEATURES

- Input clamping diodes
- Guaranteed Noise Immunity 400 mV
- Typical Noise Immunity 1V
- Fan-out 10
- Allowable Power Supply Variation 4.75V to 5.25V
- Average Propagation Delay 12 ns (with 50 pF)
- Average Power Dissipation 10 mW per gate

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$ ............................................................... 5.25V
Input Voltage ............................................................... 5.5V
Operating Temperature Range ................................................ 0°C to 70°C
Storage Temperature Range ................................................. -65°C to +150°C
Lead Temperature (soldering, 10 sec) ...................................... 300°C

## PIN CONNECTION

TOP VIEW

$Y = \overline{A}$

## 7406
### 276-1821
# HEX INVERTER BUFFER/DRIVER

### GENERAL DESCRIPTION

The TTL hex inverter buffer/driver is fully compatible for use with TTL and DTL logic circuits. Each inverter features high-voltage, open-collector outputs (30 volts minimum breakdown.)

### FEATURES

- Input clamp diodes
- 15 ns typical propagation delay time
- High voltage open-collector outputs 30V
- High sink current capability 40 mA

### ABSOLUTE MAXIMUM RATINGS

Supply Voltage.................................................................................. 7.0V
Input Voltage..................................................................................... 5.5V
Output Voltage.................................................................................. 30V
Storage Temperature Range....................................... -65°C to +150°C
Lead Temperature, (Soldering, 10 Sec)..................................300°C
Supply Voltage.......................................................................4.75—5.25V
Temperature (T$_A$)..............................................................0—70°C
Output Sink Current ...............................................................40 mA

**PIN CONNECTION**

TOP VIEW

Y = $\overline{A}$
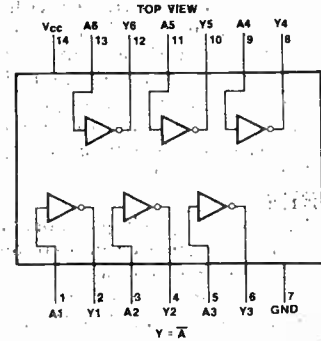
## 7408
### 276-1822
# QUAD TWO-INPUT AND GATE

### GENERAL DESCRIPTION

7408 provides the non-inverting AND function in the popular quad 2-input pin configuration.

### ABSOLUTE MAXIMUM RATINGS

Supply Voltage............................................................................... 7V
Input Voltage.................................................................................. 5.5V
Output Voltage............................................................................... 5.5V
Storage Temperature Range........................................ -65°C to +150°C
Lead Temperature (Soldering, 10 sec)................................300°C
Supply Voltage (V$_{CC}$)...........................................4.75—5.25V
Temperature (T$_A$).................................................0°C to 70°C

**PIN CONNECTION**

TOP VIEW

Y = AB
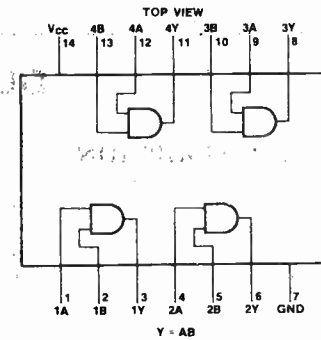
## 7410
### 276-1807
# TRIPLE THREE-INPUT NAND GATE

### GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

### FEATURES

- Typical Noise Immunity 1V
- Guaranteed Noise Immunity 400 mV
- Fan Out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

### ABSOLUTE MAXIMUM RATINGS

V$_{CC}$.................................................................................. 7.0V
Input Voltage................................................................................. 5.5V
Storage Temperature Range........................................ -65°C to +150°C
Fan-Out ........................................................................................ 10
Lead Temperature (Soldering, 10 sec)................................300°C
Supply Voltage (V$_{CC}$)...........................................4.75—5.25V
Temperature (T$_A$).................................................0°C to 70°C

**PIN CONNECTION**

TOP VIEW

Dual-In-Line Package

Y = $\overline{ABC}$
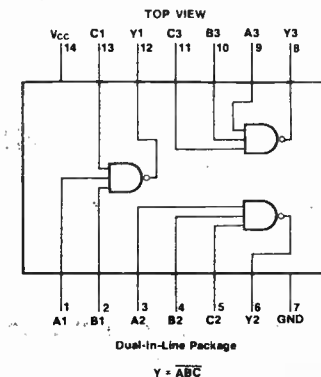
# DUAL SCHMITT-TRIGGER

**7413**
**276-1815**

## GENERAL DESCRIPTION

The 7413 is a dual Schmitt-trigger with input gating. It differs from a conventional dual 4-input gate in that instead of having a single threshold voltage, the 7413 has different thresholds for positive-and negative-going inputs. When the output is in the logical "0" state an input must be lowered to 0.9 volts typically before the output changes state. Conversely in order to return to the logical "0" state the input must rise to 1.7V typically. This hysteresis is extremely beneficial in applications where slow rise and fall time signals are prevalent.

## FEATURES

- 800 mV hysteresis typ.—higher noise immunity
- Operation from very slow ramp voltages
- Temperature compensated design
- Typical propagation delay—17 ns
- Typical power dissipation 42 mW per function

## APPLICATIONS

- Pulse shaper
- Threshold detector

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage .................................................................... 5.25V
Input Voltage ........................................................................ 5.5V
Output Voltage ...................................................................... 5.5V
Operating Temperature Range ............................. 0°C to +70°C
Storage Temperature Range ....................... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ....................... 300°C

### PIN CONNECTION

TOP VIEW

$Y = \overline{ABCD}$

Dual-In-Line and Flat Package

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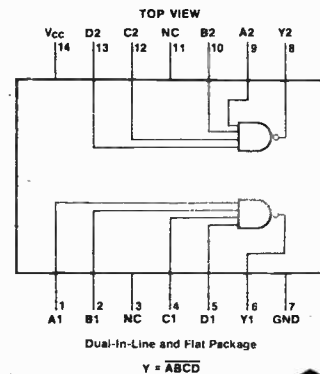
# DUAL FOUR-INPUT NAND GATE

**7420**
**276-1809**

## GENERAL DESCRIPTION

Employing TTL (Transistor-Transistor-Logic) to achieve high speed at moderate power dissipation, these gates provide the basic functions used in the implementation of digital integrated circuit systems. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

## FEATURES

- Typical Noise Immunity 1V
- Fan Out 10
- Guaranteed Noise Immunity 400 mV
- Average Propagation Delay 13 ns
- Average Power Dissipation 10 mW per gate

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$ ............................................................................. 5.25V
Input Voltage ...................................................................... 5.5V
Storage Temperature Range ....................... -65°C to +150°C
Fan-Out ................................................................................ 10
Lead Temperature (Soldering, 10 sec) ....................... 300°C
Supply Voltage ($V_{CC}$) ............................... 4.75—5.25V
Temperature ($T_A$) .................................... 0°C to 70°C

### PIN CONNECTION

TOP VIEW

$Y = \overline{ABCD}$

Dual-In-Line and Flat Package

---

# TRIPLE THREE-INPUT NOR GATE

**7427**
**276-1823**

### PIN CONNECTION

TOP VIEW

## GENERAL DESCRIPTION

The NOR gate described here is designed to provide additional versatility to the line of 74 functions.

The 7427 has neither expandable inputs nor Strobe.

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage ..................................................................... 5.25V
Input Voltage ....................................................................... 5.5V
Output Voltage ..................................................................... 5.5V
Storage Temperature Range ....................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ............... 300°C
Supply Voltage ($V_{CC}$) ............................... 4.75—5.25V
Temperature ($T_A$) .................................... 0°C to 70°C

$Y = \overline{A \cdot B \cdot C}$

Dual-In-Line and Flat Package
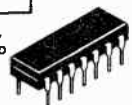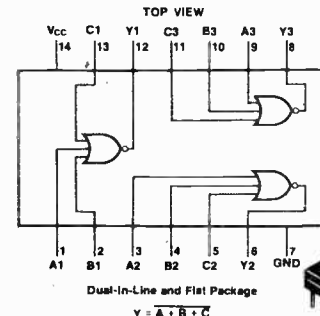
## 7432 276-1824
# QUAD TWO-INPUT OR GATE

### GENERAL DESCRIPTION

The 7432 is a quad 2-input OR gate utilizing TTL (Transistor-Transistor Logic) to provide the basic functions used in the implementation of digital integrated circuit systems. The device is completely compatible with all other Series 74 devices.

### FEATURES

• Popular digital logic block
• Saves inverter function when sign inversion is not needed

### ABSOLUTE MAXIMUM RATINGS

Supply Voltage ................................................................. 5.25V
Input Voltage ..................................................................... 5.5V
Output Voltage .................................................................. 5.5V
Operating Temperature Range ........................................ 0°C to 70°C
Storage Temperature Range ..................................... -65°C to 150°C
Lead Temperature (Soldering, 10 sec) ............................. 300°C

### PIN CONNECTION

TOP VIEW

Dual-In-Line and Flat Package

$Y = A + B$
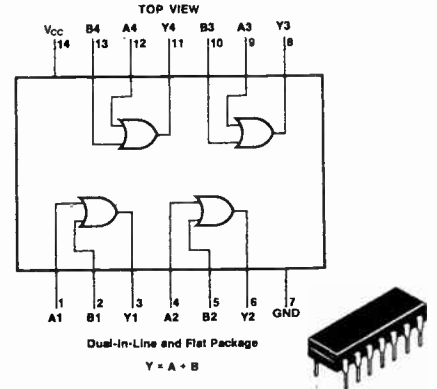
## 7441 276-1804
# BCD TO DECIMAL DECODER/DRIVER

### GENERAL DESCRIPTION

The 7441 is monolithic binary-coded-decimal to decimal decoder. The BCD number to be decoded is applied to the four input lines; and the unique output corresponding to the decimal equivalent of the input number falls to a logical 0 level. Outputs are designed to drive gas-filled-readout tubes but are also able to operate with other low current lamps and relays.

An over-range feature provides that if binary numbers between 10 and 15 are applied to the input the least significant bit of these numbers (0 through 5) will be decoded on the output.

### FEATURES

• Drive cold-cathode, numeric indicator tubes directly
• Fully decoded inputs
• Low leakage current 1.8μ A @ 50V
• Low power dissipation 105 mW typical

### ABSOLUTE MAXIMUM RATINGS

Supply Voltage ($V_{CC}$) ....................................................... 5.25V
Output Voltage .................................................................... 70V
Input Voltage ..................................................................... 5.5V
Operating Temperature Range ..................................... 0°C to +70°C
Storage Temperature Range ..................................... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ............................. 300°C

### PIN CONNECTION

TOP VIEW

Dual-In-Line and Flat Package

### LOGIC DIAGRAM
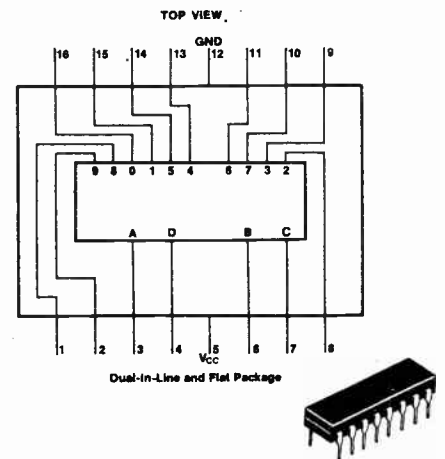
### TRUTH TABLE

| INPUT | | | | LOW OUTPUT |
|---|---|---|---|---|
| D | C | B | A | |
| 0 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 1 |
| 0 | 0 | 1 | 0 | 2 |
| 0 | 0 | 1 | 1 | 3 |
| 0 | 1 | 0 | 0 | 4 |
| 0 | 1 | 0 | 1 | 5 |
| 0 | 1 | 1 | 0 | 6 |
| 0 | 1 | 1 | 1 | 7 |
| 1 | 0 | 0 | 0 | 8 |
| 1 | 0 | 0 | 1 | 9 |
| [OVER RANGE] | | | | |
| 1 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 1 | 1 |
| 1 | 1 | 0 | 0 | 2 |
| 1 | 1 | 0 | 1 | 3 |
| 1 | 1 | 1 | 0 | 4 |
| 1 | 1 | 1 | 1 | 5 |
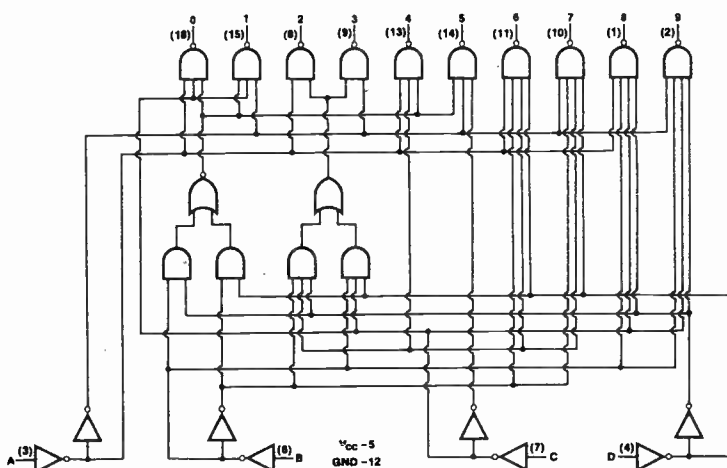
# BCD TO SEVEN-SEGMENT DECODER/DRIVER

**7447**
**276-1805**

## GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply. The 7447 outputs withstand 15V at a maximum leakage current of $250\mu A$.

## FEATURES

- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ....................................................4.75-5.25 volts
Continuous voltage at outputs a-g ............................. Max. 5.5 volts
Logic 1 input voltage............................................... Min. 2 volts
Logic 0 input voltage............................................... Max. 0.8 volts
Logic 0 output voltage............................................ Max. 0.4 volts
Logic 1 output voltage at a-g................................... Min. 2.4 volts
Logic 1 output voltage at BI/RBO............................. Min. 2.4 volts

## PIN CONNECTION

TOP VIEW



## LOGIC DIAGRAM

## 7448
## 276-1816

# BCD TO SEVEN-SEGMENT DECODER/DRIVERS

## GENERAL DESCRIPTION

This versatile series of 7-segment display drivers fulfills a wide variety of requirements for most active high (common cathode) and active low (common anode) Light Emitting Diodes (LED) or lamp displays. Each device fully decodes a 4-bit BCD input into a number from 0 through 9 in the standard 7-segment display format, and BCD numbers above 9 into unique patterns that verify operation. All circuits operate off of a single 5.0V supply.

## FEATURES

- Lamp-test input
- Leading/trailing zero suppression (RBI and RBO)
- Blanking input that may be used to modulate lamp intensity or inhibit output
- TTL and DTL compatible
- Input clamping diodes

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ............................................................4.75-5.25 volts
Continuous voltage at outputs a-g ...........................................Max. 5.5 volts
Logic 1 input voltage................................................................Min. 2 volts
Logic 0 input voltage..............................................................Max. 0.8 volts
Logic 0 output voltage............................................................Max. 0.4 volts
Logic 1 output voltage at a-g...................................................Min. 2.4 volts
Logic 1 output voltage at BI/RBO.............................................Min. 2.4 volts

## PIN CONNECTION



## 7451
## 276-1825

# DUAL TWO-WIDE TWO-INPUT AND-OR-INVERT GATE

## GENERAL DESCRIPTION

The devices described in this data sheet employ TTL to achieve high speed at moderate power dissipation. They are consolidated onto one sheet since they perform the AND-OR-INVERT function with only differing numbers of AND inputs and OR terms. Characteristics include high noise immunity, low output impedance, good capacitance drive capability, and minimal variation in switching time with temperature. The gates are compatible with and interchangeable with Series 74 devices.

## FEATURES

- Input Clamping Diodes
- Typical Noise Immunity 1 Volt
- Guaranteed Noise Immunity 400 mV
- Fan-out 10
- Average Propagation Delay 13 ns
- Average Power Dissipation 14 mW/gate

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$........................................................................................... 5.25V
Input Voltage.................................................................................. 5.5V
Storage Temperature Range ...................................... -65°C to +150°C
Fan-Out ............................................................................................ 10
Lead Temperature (Soldering, 10 sec)......................................300°C
Supply Voltage ($V_{CC}$)...........................................................4.75—5.25V
Temperature ($T_A$)..........................................................0°C to 70°C

## PIN CONNECTION
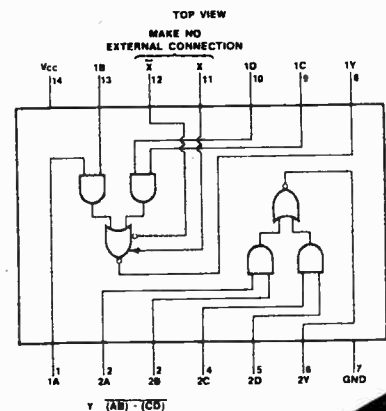


## SCHEMATIC DIAGRAM
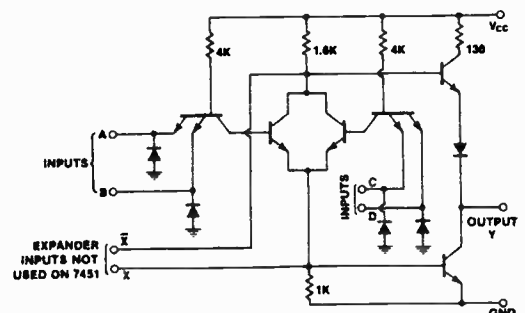
# DUAL JK MASTER/SLAVE FLIP FLOP

**7473**
**276-1803**

## GENERAL DESCRIPTION

The flip flops described herein are TTL (Transistor-Transistor Logic) dual JK Master/Slave flip flops. Asynchronous CLEAR inputs are provided on the flip flops. The device is totally monolithic and designed for use in high speed control and counting applications, where economy is required, and multiple data inputs are not required. These devices meet all of the electrical and mechanical requirements of the equivalent 74 device.

## FEATURES

- High Speed of Operation 25 MHz toggling
- Optimum Power Dissipation 45 mW/ff
- High Noise Immunity 1V
- Guaranteed Clock Skew 15 ns

This device also features a special clock line clamp to reduce ringing and prevent false clocking. In addition, the usual speed-power efficiency and high output drive-capability normally gained with TTL circuits are retained.

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Supply Voltage | 5.25V |
| Input Voltage | 5.5V |
| Fan Out | 10 |
| Storage Temperature Range | -65°C to +150°C |
| Operating Temperature Range | 0°C to +70°C |
| Lead Temperature (soldering 10 sec) | 300°C |

### PIN CONNECTION
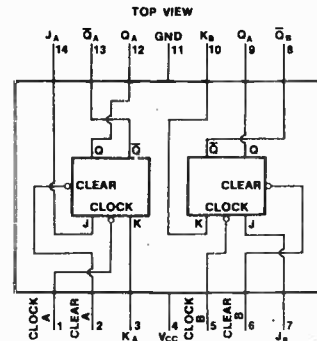


### TRUTH TABLE (Each Flip-Flop)

| $t_n$ | | $t_{n+1}$ |
|---|---|---|
| J | K | Q |
| 0 | 0 | $Q_n$ |
| 0 | 1 | 0 |
| 1 | 0 | 1 |
| 1 | 1 | $\overline{Q}_n$ |

$t_n$ = bit time before clock pulse.
$t_{n+1}$ = bit time after clock pulse.

# DUAL D FLIP FLOP

**7474**
**276-1818**

## GENERAL DESCRIPTION

The 7474 is designed for use where the flexibility of 2 inputs is not required. It has only a single DATA (D) input. The logical level applied to this input is transferred to the Q output when the clock pulse voltage rises to a logical 1. Since only one pin is used for data entry, fully asynchronous (both PRESET and CLEAR) capability can be provided in a 14 pin dual-in-line package.

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| Supply voltage $V_{CC}$ | 4.75—5.25V (MIN-NOM) |
| Normalized fan-out from each output, N | 10 (MAX) |
| Width of clock pulse, $t_p$ (clock) | 30 ns (MIN) |
| Width of preset pulse, $t_p$ (preset) | 30 ns (MIN) |
| Width of clear pulse, $t_p$ (clear) | 30 ns (MIN) |
| Operating free-air temperature range, $T_A$ | 0—70°C (MIN-MAX) |

### PIN CONNECTION
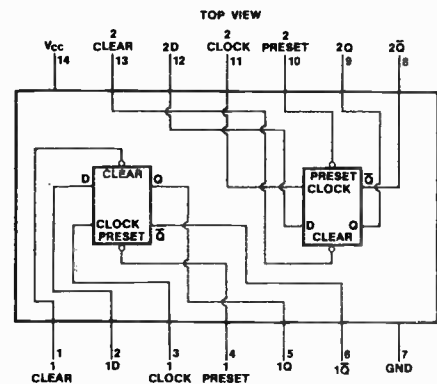


**POSITIVE LOGIC:**
Low input to preset sets Q to logical 1
Low input to clear sets Q to logical 0
Preset and clear are independent of clock

### TRUTH TABLE (Each Flip-Flop)

| $t_n$ | $t_{n+1}$ | |
|---|---|---|
| INPUT D | OUTPUT Q | OUTPUT $\overline{Q}$ |
| 0 | 0 | 1 |
| 1 | 1 | 0 |

NOTES: 1. $t_n$ = bit time before clock pulse.
2. $t_{n+1}$ = bit time after clock pulse.

## 7475
### 276-1806
# QUAD LATCH

## GENERAL DESCRIPTION

This latch is ideally suited for use as temporary storage for binary information between processing units and input/output or indicator units. Information present at a data (D) input is transferred to the Q output when the enable (G) is high, and the Q output will follow the data input as long as the enable remains high. When the enable goes low, the information (that was present at the data input at the time the transition occurred) is retained at the Q output until the enable is permitted to go high.

The 7475, features complementary Q and $\overline{Q}$ outputs from a 4-bit latch, and are available in 16-pin packages.

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ..................................................................4.75—5.25V
Logic input 1 voltage ................................................................ 2.0V Min.
Logic input 0 voltage ................................................................ 0.8V Max.
Logic output 1 voltage ............................................................... 2.4V Min.
Logic output 0 voltage ............................................................... 0.4V Max.

## PIN CONNECTION
TOP VIEW
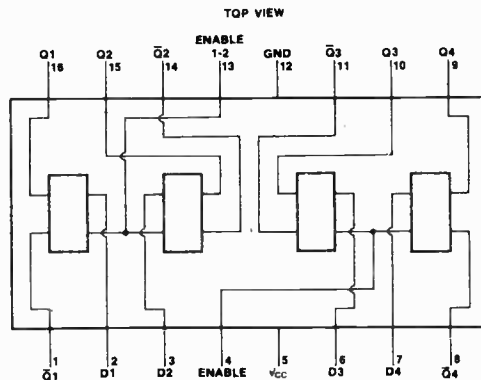


## LOGIC DIAGRAM (Each Latch)
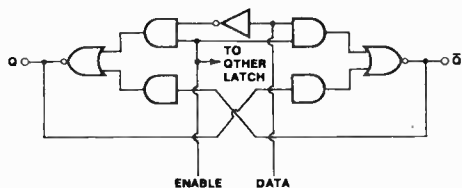


## TRUTH TABLE (Each Latch)

| INPUTS | | OUTPUTS | |
|---|---|---|---|
| D | G | Q | $\overline{Q}$ |
| L | H | L | H |
| H | H | H | L |
| X | L | $Q_0$ | $\overline{Q}_0$ |

H = High Level, L = Low Level, X = Don't Care
$Q_0$ = The Level of Q Before the High-to-Low Transition of G

## 7476
### 276-1813
# DUAL JK MASTER/SLAVE FLIP-FLOP

## GENERAL DESCRIPTION

Incorporates separate presets, clears, and clocks. Clock pulse controls inputs to master section, and also regulates coupling between master and slave sections.

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ..................................................................4.75—5.25V
Logic input 1 voltage ................................................................ 2.0V Min.
Logic input 0 voltage ................................................................ 0.8V Max.
Logic output 1 voltage ............................................................... 2.4V Min.
Logic output 0 voltage ............................................................... 0.4V Max.

## PIN CONNECTION
TOP VIEW



## TRUTH TABLE

| INPUTS | | | | | OUTPUTS | |
|---|---|---|---|---|---|---|
| PR | CLR | CLK | J | K | Q | $\overline{Q}$ |
| L | H | X | X | X | H | L |
| H | L | X | X | X | L | H |
| L | L | X | X | X | H* | H* |
| H | H | ⊓ | L | L | Q0 | $\overline{Q}0$ |
| H | H | ⊓ | H | L | H | L |
| H | H | ⊓ | L | H | L | H |
| H | H | ⊓ | H | H | TOGGLE | |

Notes: ⊓ = high-level pulse; data inputs should be held constant while clock is high; data is transferred to output on the falling edge of the pulse.

Q0 = the level of Q before the indicated input conditions were established

TOGGLE: Each output changes to the complement of its previous level on each active transition (pulse) of the clock.

*This configuration is nonstable; that is, it will not persist when preset and clear inputs return to their inactive (high) level.
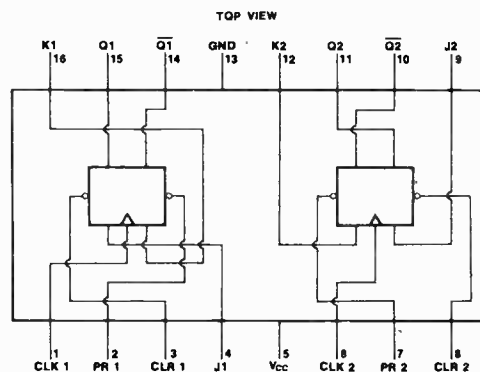
# FOUR-BIT MAGNITUDE COMPARATOR

**7485**
276-1826

## GENERAL DESCRIPTION

This four-bit magnitude comparator performs comparison of straight binary or BCD codes. Three fully-decoded decisions about two, 4-bit words (A, B) are made and are externally available at three outputs. This device is fully expandable to any number of bits without external gates. Words of greater length may be compared by connecting comparators in cascade. The $A > B$, $A < B$, and $A = B$ outputs of a stage handling less-significant bits are connected to the corresponding inputs of the next stage handling more-significant bits. The stage handling the least-significant bits must have a high-level voltage applied to the $A = B$ input. The cascading paths of the 85 are implemented with only a two-gate-level delay to reduce overall comparison times for long words.

## PIN CONNECTION

TOP VIEW

DATA INPUTS

## TYPICAL RATINGS

| | |
|---|---|
| Typical power dissipation | 275 mW |
| Typical delay (4-bit words) | 23 ns |

## TRUTH TABLE

| COMPARING INPUTS | | | | CASCADING INPUTS | | | OUTPUTS | | |
|---|---|---|---|---|---|---|---|---|---|
| A3, B3 | A2, B2 | A1, B1 | A0, B0 | A>B | A<B | A = B | A>B | A<B | A = B |
| A3>B3 | X | X | X | X | X | X | H | L | L |
| A3<B3 | X | X | X | X | X | X | L | H | L |
| A3 = B3 | A2>B2 | X | X | X | X | X | H | L | L |
| A3 = B3 | A2<B2 | X | X | X | X | X | L | H | L |
| A3 = B2 | A2 = B2 | A1>B1 | X | X | X | X | H | L | L |
| A3 = B3 | A2 = B2 | A1<B1 | X | X | X | X | L | H | L |
| A3 = B3 | A2 = B2 | A1 = B1 | A0>B0 | X | X | X | H | L | L |
| A3 = B3 | A2 = B2 | A1 = B1 | A0<B0 | X | X | X | L | H | L |
| A3 = B3 | A2 = B2 | A1 = B1 | A0 = B0 | H | L | L | H | L | L |
| A3 = B3 | A2 = B2 | A1 = B1 | A0 = B0 | L | H | L | L | H | L |
| A3 = B3 | A2 = B2 | A1 = B1 | A0 = B0 | L | L | H | L | L | H |

H = High Level, L = Low Level, X = Don't Care
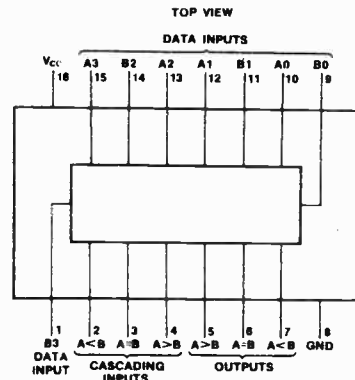
# QUAD EXCLUSIVE-OR GATE

**7486**
276-1827

## GENERAL DESCRIPTION

The 7486 utilizes TTL (Transistor-Transistor Logic) to provide four exclusive-OR gates in one package. Characteristics of the circuits include high noise immunity, low output impedance, good capacitive drive capability, and minimal variation in switching times with temperature.

## PIN CONNECTION

TOP VIEW

Dual-In-Line and Flat Package

## FEATURES

- Input clamp diodes
- Typical noise immunity 1V
- Average propagation delay 15 ns
- Average power dissipation 40 mW per gate

## ABSOLUTE MAXIMUM RATINGS

| | |
|---|---|
| $V_{CC}$ | 5.25V |
| Input Voltage | 5.5V |
| Operating Temperature Range | 0°C to 70°C |
| Storage Temperature Range | -65°C to +150°C |
| Fan Out | 10 |
| Lead Temperature (Soldering, 10 sec) | 300°C |
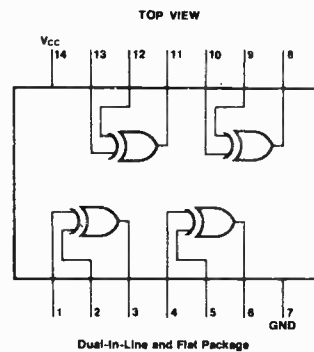
## 7490
## 276-1808
# DIVIDE BY 2/5, BCD COUNTER

## GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip-flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide-by-five.

This counter has a gated zero reset and gated set-to-nine inputs for use in BCD nine's complement applications.

To use maximum count length (decade, divide-by-twelve, or four-bit binary, the B input is connected to the $Q_A$ output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table. A symmetrical divide-by-ten count can be obtained from the 90 counter by connecting the $Q_D$ output to the A input and applying the input count to the B input which gives a divide-by-ten square wave at output $Q_A$.

## TYPICAL RATINGS

Typical power dissipation ........................................................ 145 mW
Count frequency ......................................................................... 42 MHz
High Level Input Voltage ................................................. (Min) 2V
Low Level Input Voltage .................................................(Max) 0.8V
High Level Input Current ................................................... 800μA
Low Level Output Current ............................................(Max) 16 mA

## LOGIC DIAGRAM
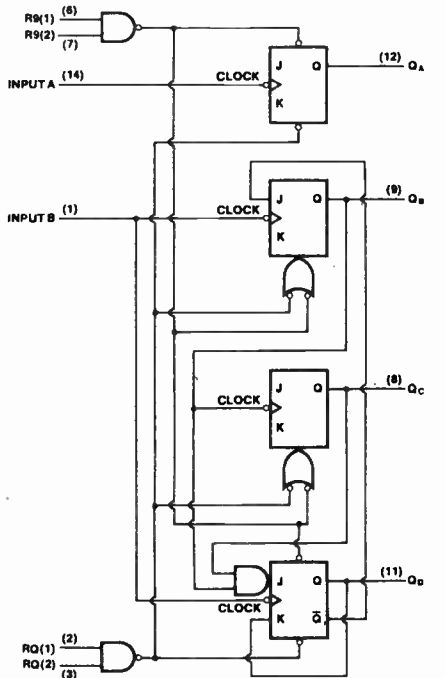


The J and K inputs shown without connection are for reference only and are functionally at a high level.

**Notes:**
(A) Output $Q_A$ is connected to input B for BCD count.

(B) Output $Q_D$ is connected to input A for bi-quinary count.

## PIN CONNECTION



TOP VIEW
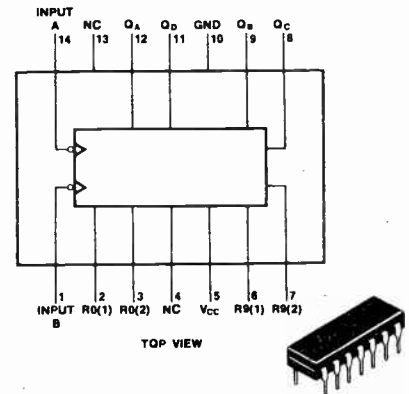
## TRUTH TABLES

### RESET/COUNT TRUTH TABLE

| RESET INPUTS | | | | OUTPUT | | | |
|---|---|---|---|---|---|---|---|
| R0(1) | R0(2) | R9(1) | R9(2) | $Q_D$ | $Q_C$ | $Q_B$ | $Q_A$ |
| H | H | L | X | L | L | L | L |
| H | H | X | L | L | L | L | L |
| X | X | H | H | H | L | L | H |
| X | L | X | L | COUNT | | | |
| L | X | L | X | COUNT | | | |
| L | X | X | L | COUNT | | | |
| X | L | L | X | COUNT | | | |

### BCD COUNT SEQUENCE
(See Note A)

| COUNT | OUTPUT | | | |
|---|---|---|---|---|
| | $Q_D$ | $Q_C$ | $Q_B$ | $Q_A$ |
| 0 | L | L | L | L |
| 1 | L | L | L | H |
| 2 | L | L | H | L |
| 3 | L | L | H | H |
| 4 | L | H | L | L |
| 5 | L | H | L | H |
| 6 | L | H | H | L |
| 7 | L | H | H | H |
| 8 | H | L | L | L |
| 9 | H | L | L | H |

### BI-QUINARY (5-2)
(See Note B)

| COUNT | OUTPUT | | | |
|---|---|---|---|---|
| | $Q_A$ | $Q_D$ | $Q_C$ | $Q_B$ |
| 0 | L | L | L | L |
| 1 | L | L | L | H |
| 2 | L | L | H | L |
| 3 | L | L | H | H |
| 4 | L | H | L | L |
| 5 | H | L | L | L |
| 6 | H | L | L | H |
| 7 | H | L | H | L |
| 8 | H | L | H | H |
| 9 | H | H | L | L |

# DECADE, DIVIDE BY 12, AND BINARY COUNTER

**7492**
**276-1819**

## GENERAL DESCRIPTION

This monolithic counter contains four master-slave flip flops and additional gating to provide a divide-by-two counter and a three-stage binary counter for which the count cycle length is divide by six.

This counter has a gated zero reset.

To use maximum count length (decade, divide-by-twelve, or four-bit binary), the B input is connected to the $Q_A$ output. The input count pulses are applied to input A and the outputs are as described in the appropriate truth table.

## TYPICAL RATINGS

Supply voltage ......................................................................... 5.25V
Typical power dissipation ...................................................... 130 mW
Count frequency .................................................................... 42 MHz

## LOGIC DIAGRAM

The J and K inputs shown without connection are for reference only and are functionally at a high level.

(A) Output $Q_A$ is connected to input B.

## PIN CONNECTION

TOP VIEW
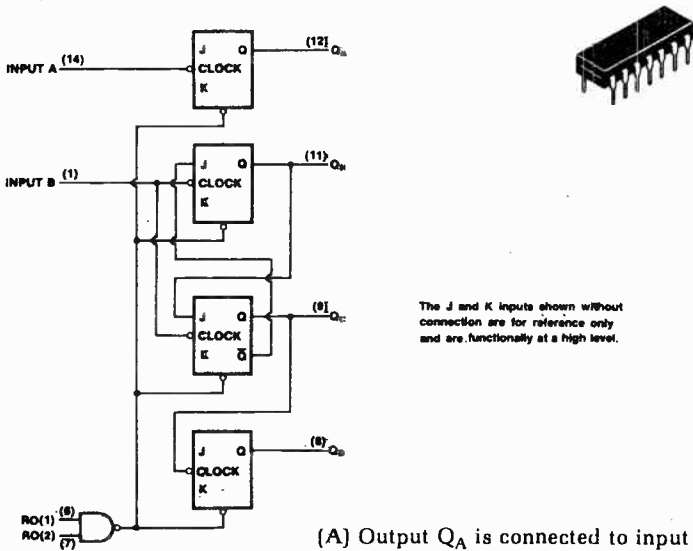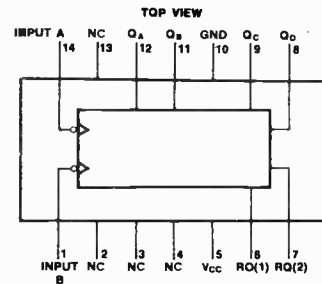
## TRUTH TABLES

COUNT SEQUENCE (See Note A)

| COUNT | OUTPUT | | | |
|-------|--------|--------|--------|--------|
| | $Q_D$ | $Q_C$ | $Q_B$ | $Q_A$ |
| 0 | L | L | L | L |
| 1 | L | L | L | H |
| 2 | L | L | H | L |
| 3 | L | L | H | H |
| 4 | L | H | L | L |
| 5 | L | H | L | H |
| 6 | H | L | L | L |
| 7 | H | L | L | H |
| 8 | H | L | H | L |
| 9 | H | L | H | H |
| 10 | H | H | L | L |
| 11 | H | H | L | H |

RESET/COUNT TRUTH TABLE

| RESET INPUTS | | OUTPUT | | | |
|--------------|--------|--------|--------|--------|--------|
| R0(1) | R0(2) | $Q_D$ | $Q_C$ | $Q_B$ | $Q_A$ |
| H | H | L | L | L | L |
| L | X | COUNT | | | |
| X | L | COUNT | | | |

# DC TRIGGERING FROM GATED LOW-LEVEL-ACTIVE (A) AND HIGH-LEVEL-ACTIVE (B) INPUTS

**74123**
**276-1817**

## GENERAL DESCRIPTION

Designed for dc triggering from gated low-level-active (A) and high-level-active (B) inputs. Provides overriding direct clear inputs and controls pulse width, e.g. lengthens pulse by retriggering or shortens by clearing.

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ...................................... 4.75-5.25 volts
Logic 1 input voltage ................................................ Min. 2 volts
Logic 0 input voltage ............................................. Max. 0.88 volts
Logic 1 output voltage ............................................. Min. 2.4 volts
Logic 0 output voltage ............................................. Max. 0.4 volts
  A or B inputs high ................................................. Min. 40 ns
  A or B inputs low .................................................. Min. 40 ns
  Clear low ........................................................... Min. 40 ns

## PIN CONNECTION

TOP VIEW
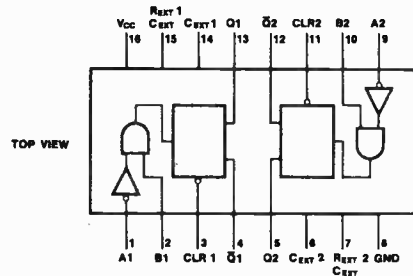
## TRUTH TABLE

| INPUTS | | | OUTPUTS | |
|--------|--------|--------|---------|--------|
| A | B | CLR | Q | $\overline{Q}$ |
| H | X | H | L | H |
| X | L | H | L | H |
| L | ↑ | H | ⊓ | ⊔ |
| ↓ | H | H | ⊓ | ⊔ |
| X | X | L | L | H |

## 74145 276-1828   BCD/DECIMAL DECODERS/DRIVERS

### GENERAL DESCRIPTION

These BCD-to-decimal decoders/drivers consist of eight inverters and ten, four-input NAND gates. The inverters are connected in pairs to make BCD input data available for decoding by the NAND gates. Full decoding of BCD input logic ensures that all outputs remain off for all invalid (10-15) binary input conditions. These decoders feature high-performance, NPN output transistors designed for use as indicator/relay drivers, or as open-collector logic-circuit drivers. The high-breakdown output transistors are compatible for interfacing with most MOS integrated circuits.

### FEATURES

- Full decoding of input logic
- 80 mA sink-current capability
- All outputs are off for invalid BCD input conditions

### ABSOLUTE MAXIMUM RATINGS

Supply Voltage............................................................................ 5.25V
Input Voltage.............................................................................. 5.5V
Output Voltage............................................................................ 15V
Operating Temperature Range....................................0°C to +70°C
Storage Temperature Range ....................................-65°C to +150°C
Lead Temperature (Soldering, 10 sec)...................................300°C
Supply Voltage ($V_{CC}$)..............................................................4.75—5.25V

### PIN CONNECTION



### LOGIC DIAGRAM
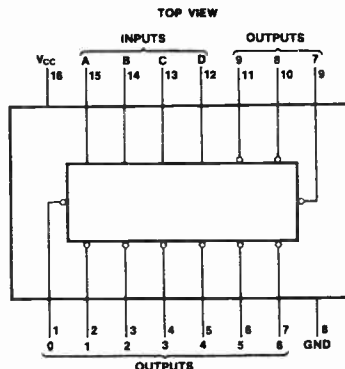


### TRUTH TABLE

| NO. | INPUTS | | | | OUTPUTS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D | C | B | A | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 0 | L | L | L | L | L | H | H | H | H | H | H | H | H | H |
| 1 | L | L | L | H | H | L | H | H | H | H | H | H | H | H |
| 2 | L | L | H | L | H | H | L | H | H | H | H | H | H | H |
| 3 | L | L | H | H | H | H | H | L | H | H | H | H | H | H |
| 4 | L | H | L | L | H | H | H | H | L | H | H | H | H | H |
| 5 | L | H | L | H | H | H | H | H | H | L | H | H | H | H |
| 6 | L | H | H | L | H | H | H | H | H | H | L | H | H | H |
| 7 | L | H | H | H | H | H | H | H | H | H | H | L | H | H |
| 8 | H | L | L | L | H | H | H | H | H | H | H | H | L | H |
| 9 | H | L | L | H | H | H | H | H | H | H | H | H | H | L |
| INVALID | H | L | H | L | H | H | H | H | H | H | H | H | H | H |
| | H | L | H | H | H | H | H | H | H | H | H | H | H | H |
| | H | H | L | L | H | H | H | H | H | H | H | H | H | H |
| | H | H | L | H | H | H | H | H | H | H | H | H | H | H |
| | H | H | H | L | H | H | H | H | H | H | H | H | H | H |
| | H | H | H | H | H | H | H | H | H | H | H | H | H | H |

H = High Level (Off), L = Low Level (On)
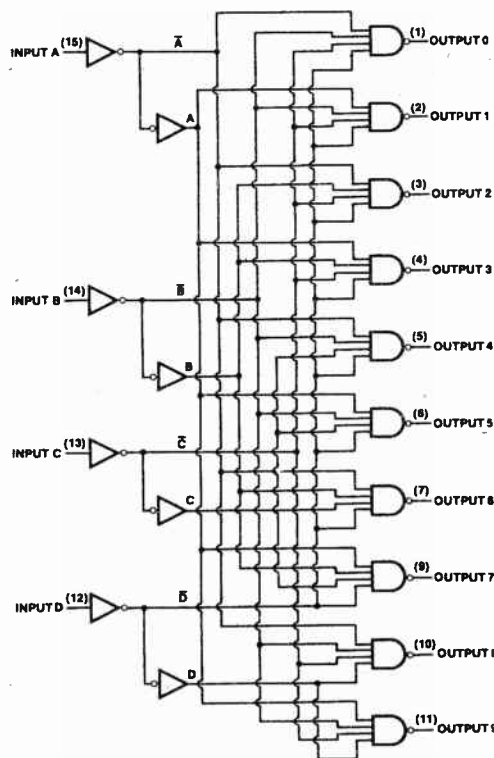
# 16-LINE TO 1-LINE MULTIPLEXER

**74150**
**276-1829**

## GENERAL DESCRIPTION

The 74150 multiplexes sixteen digital lines to one output. A four-bit code determines the particular one-of-sixteen inputs which is routed to the output. The data is inverted from input to output. A strobe override places the output in the logical 1 state.

## FEATURES

- Typical propagation delay 10 ns
- Typical power dissipation 225 mW

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage .......................................................................... 5.25V
Input Voltage .......................................................................... 5.5V
Storage Temperature Range ....................................... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ................................... 300°C
Supply Voltage (V$_{CC}$) ................................................ 4.75—5.25V
Temperature (T$_A$) ............................................................ 0°C to 70°C

## PIN CONNECTION



TOP VIEW

Dual-In-Line and Flat Package
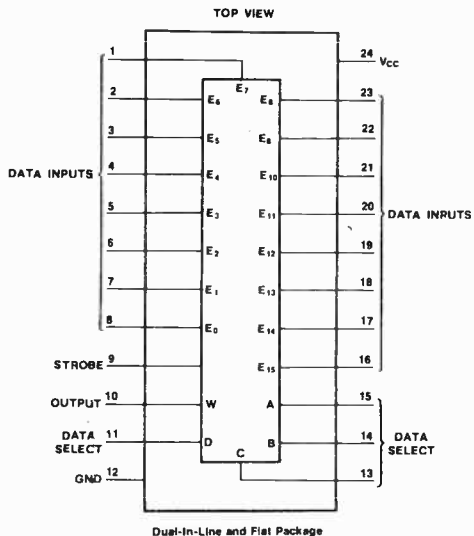
## LOGIC DIAGRAM



## TRUTH TABLE

| SELECT | | | STROBE | OUTPUT |
|---|---|---|---|---|
| D | C | B | A | S | W |
| X | X | X | X | H | H |
| L | L | L | L | L | $\overline{E0}$ |
| L | L | L | H | L | $\overline{E1}$ |
| L | L | H | L | L | $\overline{E2}$ |
| L | L | H | H | L | $\overline{E3}$ |
| L | H | L | L | L | $\overline{E4}$ |
| L | H | L | H | L | $\overline{E5}$ |
| L | H | H | L | L | $\overline{E6}$ |
| L | H | H | H | L | $\overline{E7}$ |
| H | L | L | L | L | $\overline{E8}$ |
| H | L | L | H | L | $\overline{E9}$ |
| H | L | H | L | L | $\overline{E10}$ |
| H | L | H | H | L | $\overline{E11}$ |
| H | H | L | L | L | $\overline{E12}$ |
| H | H | L | H | L | $\overline{E13}$ |
| H | H | H | L | L | $\overline{E14}$ |
| H | H | H | H | L | $\overline{E15}$ |

H = High Level
L = Low Level
X = Don't Care
$\overline{E0}$, $\overline{E1}$ .... $\overline{E15}$ = The Complement of the Level of the Respective E Input.

## 74154
## 276-1834
# 4-LINE TO 16-LINE DECODER/DEMULTIPLEXER

## GENERAL DESCRIPTION

The 74154 is a TTL monolithic 4-line-to-16-line decoder which allows decoding of a 4 bit binary coded input into one of 16 separate outputs. The device is provided with two strobe lines, both of which have to be in the low state in order to perform the decoding function; if either of the strobes is high, all 16 outputs will remain high. The device can be used as a demultiplexer by passing information from one of the strobes (the other being low) to an output selected by the 4 line input address.

## FEATURES

- All inputs contain clamp diodes
- Unit performs as a one line to 16 line demultiplexer
- Unit performs as a decoder of a 4 bit binary input to 1 or 16 outputs
- Typical propagation delay is 20 ns from inputs and 17 ns from strobe

## ABSOLUTE MAXIMUM RATINGS

$V_{cc}$ .................................................................... 5.25V
Input Voltage .............................................................. 5.5V
Operating Temperature Range ........................................ 0°C to 75°C
Storage Temperature Range ........................... -65°C to +150°C
Lead Temperature (Soldering, 10 sec) ........................... 300°C

## PIN CONNECTION

TOP VIEW



Dual-In-Line and Flat Package

## LOGIC DIAGRAM
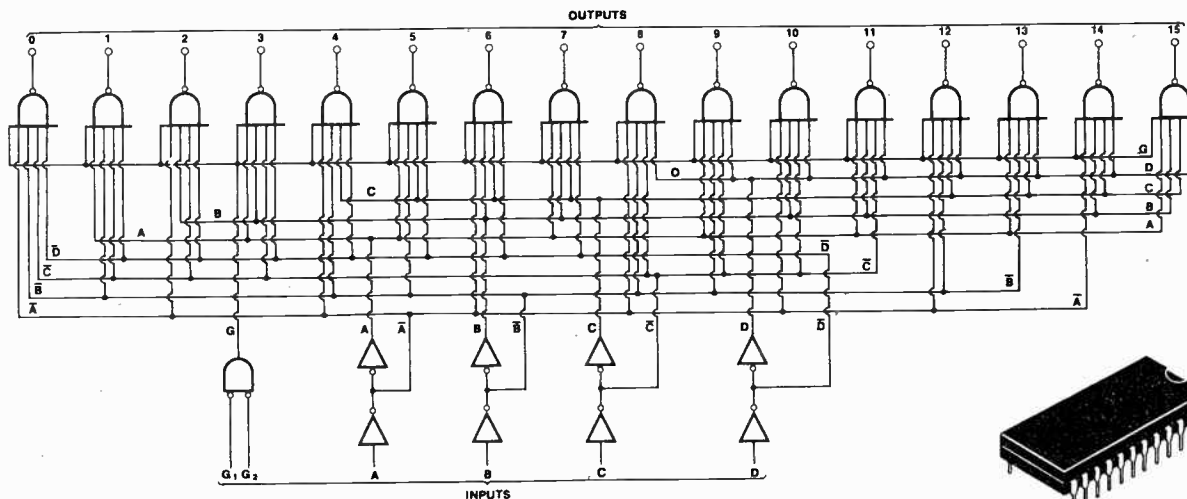


## TRUTH TABLE

| INPUTS | | | | | | OUTPUTS | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1 | G2 | D | C | B | A | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| L | L | L | L | L | L | L | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | L | H | H | L | H | H | H | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | L | H | H | L | H | H | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | L | H | H | H | H | H | L | H | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | H | L | L | H | H | H | H | L | H | H | H | H | H | H | H | H | H | H | H |
| L | L | L | H | L | H | H | H | H | H | H | L | H | H | H | H | H | H | H | H | H | H |
| L | L | L | H | H | L | H | H | H | H | H | H | L | H | H | H | H | H | H | H | H | H |
| L | L | L | H | H | H | H | H | H | H | H | H | H | L | H | H | H | H | H | H | H | H |
| L | L | H | L | L | L | H | H | H | H | H | H | H | H | L | H | H | H | H | H | H | H |
| L | L | H | L | L | H | H | H | H | H | H | H | H | H | H | L | H | H | H | H | H | H |
| L | L | H | L | H | L | H | H | H | H | H | H | H | H | H | H | L | H | H | H | H | H |
| L | L | H | L | H | H | H | H | H | H | H | H | H | H | H | H | H | L | H | H | H | H |
| L | L | H | H | L | L | H | H | H | H | H | H | H | H | H | H | H | H | L | H | H | H |
| L | L | H | H | L | H | H | H | H | H | H | H | H | H | H | H | H | H | H | L | H | H |
| L | L | H | H | H | L | H | H | H | H | H | H | H | H | H | H | H | H | H | H | L | H |
| L | L | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | L |
| L | H | X | X | X | X | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H |
| H | L | X | X | X | X | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H |
| H | H | X | X | X | X | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H | H |

H = High Level
L = Low Level
X = Don't Care
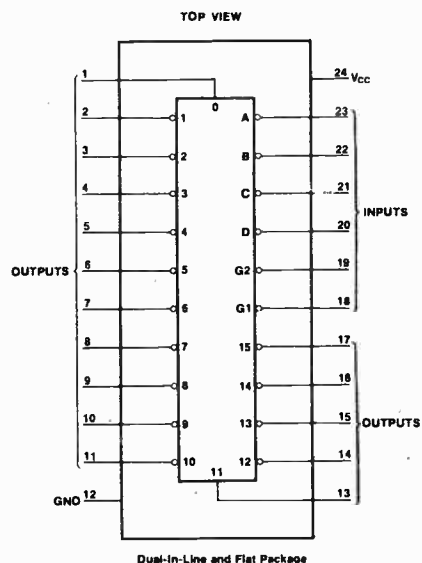
# UP/DOWN DECADE COUNTER

**74192**
**276-1831**

## GENERAL DESCRIPTION

The 74192 is a TTL, up-down decade counter which is capable of being preset to any number from 0 through 9. A load input controls the asynchronous entry of these numbers, and sets all outputs to appropriate state.

Counting is performed through two clock lines—one controlling the count in the up direction, and the other in the down direction. Two outputs, Borrow and Carry, are connected to the clock inputs of subsequent counters to provide for counting numbers greater than 9. The counter is synchronous by itself, and "semi-synchronous" (two-gate delays between stages) when cascaded.

## ABSOLUTE MAXIMUM RATINGS

$V_{CC}$ ................................................................................. 5.25V
Input Voltage ....................................................................... 5.5V
Operating Temperature Range ......................................... 0°C to +70°C
Storage Temperature Range ...................................... -65°C to +150°C
Fanout ................................................................................. 10
Lead Temperature (Soldering, 10 sec) ............................ 300°C

## PIN CONNECTION

**TOP VIEW**



Dual-In-Line and Flat Package
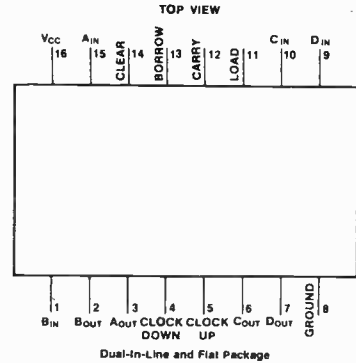
## LOGIC DIAGRAM
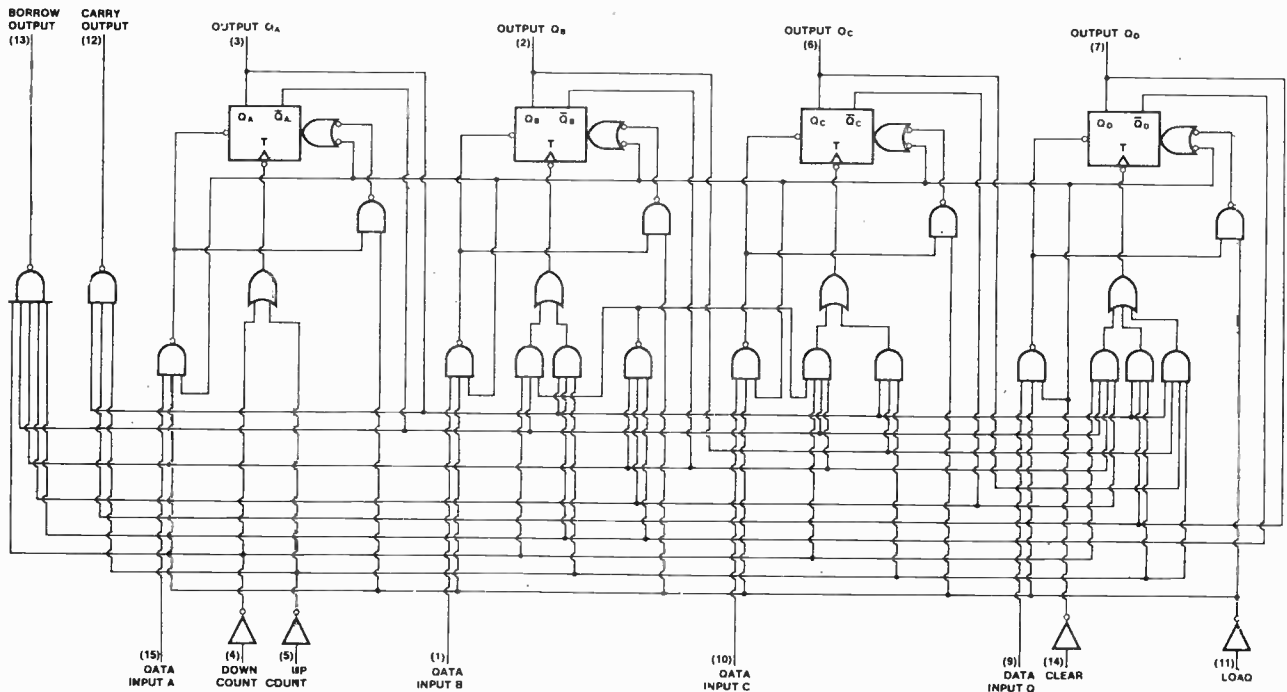
## 74193
### 276-1820

# SYNCHRONOUS UP/DOWN COUNTER WITH DUAL CLOCK

## GENERAL DESCRIPTION

The 74193 is a 4-bit binary counter. Synchronous operation is provided by having all flip-flops clocked simultaneously, so that the outputs change together when so instructed by the steering logic. This mode of operation eliminates the output counting spikes normally associated with asynchronous (ripple-clock) counters.

The outputs of the four master-slave flip-flops are triggered by a low-to-high level transition of either count (clock) input. The direction of counting is determined by which count input is pulsed, while the other count input is held high.

All four counters are fully programmable; that is, each output may be preset to either level by entering the desired data at the inputs while the load input is low. The output will change independently of the count pulses. This feature allows the counters to be used as modulo-N dividers by simply modifying the count length with the preset inputs.

A clear input has been provided which, when taken to a high level, forces all outputs to the low level; independent of the count and load inputs. The clear, count, and load inputs are buffered to lower the drive requirements of clock drivers, etc., required for long words.

## FEATURES

- Fully independent clear input
- Cascading circuitry provided internally
- Synchronous operation
- Individual preset each flip-flop

## ABSOLUTE MAXIMUM RATINGS

Supply voltage $V_{CC}$ ......................................................... 4.75—5.25V (MIN-MAX)
Normalized fan-out from each output, N ........................................ 10 (MAX)
Input count frequency, f count ................................. 0—25 MHz (MIN-MAX)
Width of any input pulse, tw ......................................... 20 ns (MIN)
Data setup time, $t_{setup}$ ................................................ 20 ns (MIN)
Data hold time, $t_{hold}$ ................................................ 1 ns (MIN)
Operating free-air temperature range, Ta ..................... 0—70°C (MIN-MAX)

## PIN CONNECTION



TOP VIEW
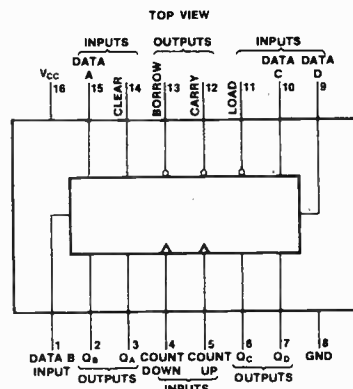
Note: Low Input to load sets $Q_A$ = A, $Q_B$ = B, $Q_C$ = C, and $Q_D$ = D.

## LOGIC DIAGRAM



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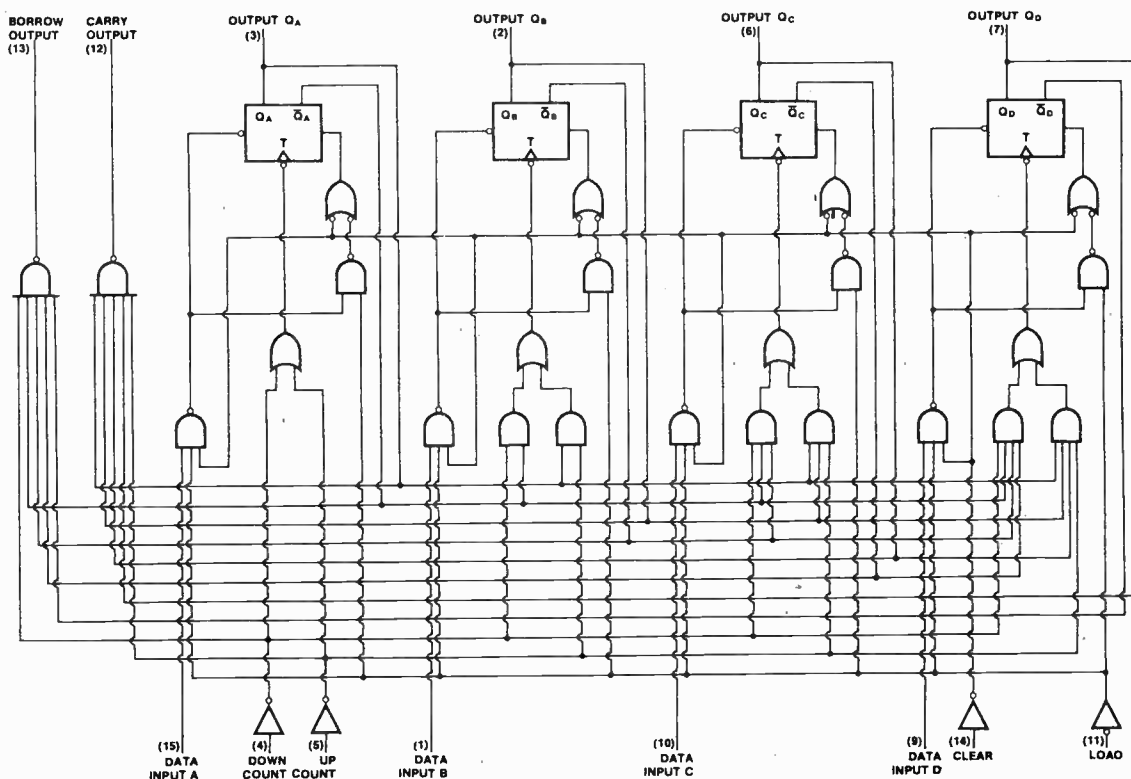
# FOUR-BIT BIDIRECTIONAL UNIVERSAL SHIFT REGISTERS

**74194**
**276-1832**

## GENERAL DESCRIPTION

The 74194 is a bidirectional shift register designed to incorporate virtually all of the features a system designer may want in a shift register. The circuit contains 46 equivalent gates and features parallel inputs, parallel outputs, right-shift and left-shift serial inputs, operating mode control inputs, and a direct overriding clear line. The register has four distinct modes of operation, namely:

  Parallel (Broadside) Load
  Shift Right (In the direction $Q_A$ toward $Q_D$)
  Shift Left (In the direction $Q_D$ toward $Q_A$)
  Inhibit Clock (Do nothing)

Synchronous parallel loading is accomplished by applying the four bits of data and taking both mode control inputs, $S_0$ and $S_1$, high. The data is loaded into the associated flip-flop and appears at the outputs after the positive transition of the clock input. During loading, serial data flow is inhibited.

Shift right is accomplished synchronously with the rising edge of the clock pulse when $S_0$ is high and $S_1$ is low. Serial data for this mode is entered at the shift-left serial input.

Clocking of the flip-flop is inhibited when both mode control inputs are low. The mode controls should be changed only while the clock input is high.

## FEATURES

- Typical power dissipation 195 mW
- Typical clock frequency 36 MHz (max)
- Parallel inputs and outputs
- Four operating modes:
  Synchronous parallel load
  Right shift
  Left shift
  Do nothing
- Positive edge-triggered clocking
- Direct overriding clear

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage, $V_{CC}$ ........................................ 5.25V
Input Voltage ..................................................... 5.5V
Output Voltage .................................................. 5.5V
Storage Temperature Range ..................... -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ................ 300°C
Supply Voltage ($V_{CC}$) ........................... 4.75—5.25V
Temperature ($T_A$) ........................... 0°C to 70°C

### PIN CONNECTION



TOP VIEW

Dual-In-Line Package

### LOGIC DIAGRAM



## TRUTH TABLE

| CLEAR | MODE | | CLOCK | SERIAL | | PARALLEL | | | | OUTPUTS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | S1 | S0 | | LEFT | RIGHT | A | B | C | D | $Q_A$ | $Q_B$ | $Q_C$ | $Q_D$ |
| L | X | X | X | X | X | X | X | X | X | L | L | L | L |
| H | X | X | L | X | X | X | X | X | X | $Q_{A0}$ | $Q_{B0}$ | $Q_{C0}$ | $Q_{D0}$ |
| H | H | H | ↑ | X | X | a | b | c | d | a | b | c | d |
| H | L | H | ↑ | X | H | X | X | X | X | H | $Q_{AN}$ | $Q_{BN}$ | $Q_{CN}$ |
| H | L | H | ↑ | X | L | X | X | X | X | L | $Q_{AN}$ | $Q_{BN}$ | $Q_{CN}$ |
| H | H | L | ↑ | H | X | X | X | X | X | $Q_{BN}$ | $Q_{CN}$ | $Q_{DN}$ | H |
| H | H | L | ↑ | L | X | X | X | X | X | $Q_{BN}$ | $Q_{CN}$ | $Q_{DN}$ | L |
| H | L | L | X | X | X | X | X | X | X | $Q_{A0}$ | $Q_{B0}$ | $Q_{C0}$ | $Q_{D0}$ |

H = High Level (steady state), L = Low Level (steady state), X = Don't Care (any input, including transitions)
↑ = Transition from low to high level
a, b, c, d = The level of steady state input at inputs A, B, C, or D, respectively.
$Q_{A0}$, $Q_{B0}$, $Q_{C0}$, $Q_{D0}$ = The level of $Q_A$, $Q_B$, $Q_C$, or $Q_D$, respectively, before the indicated steady state input conditions were established.
$Q_{AN}$, $Q_{BN}$, $Q_{CN}$, $Q_{DN}$ = The level of $Q_A$, $Q_B$, $Q_C$, respectively, before the most recent ↑ transition of the clock.
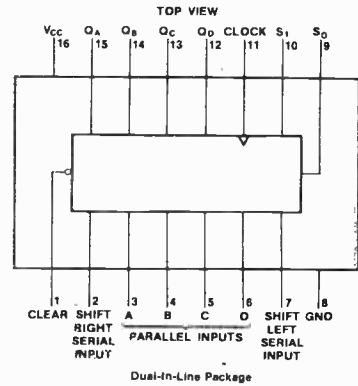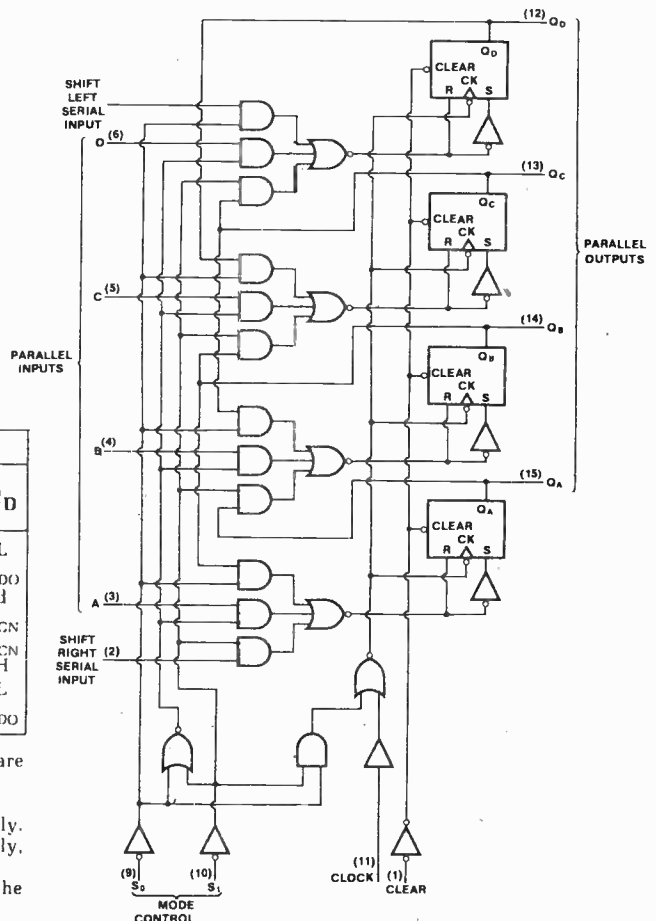
## 74196
276-1833

# 40 MHz PRESETTABLE DECADE AND BINARY COUNTERS/LATCHES

## GENERAL DESCRIPTION

These high-speed monolithic counters consist of four dc coupled master/slave flip-flops which are internally interconnected to provide either a divide-by-two and a divide-by-five counter. These counters are fully programmable; that is, the outputs may be preset to any state by placing a low on the count/load input and entering the desired data at the data inputs. The outputs will change to agree with the data inputs independent of the state of the clocks.

These counters may also be used as 4-bit latches by using the count/load input as the strobe and entering data at the data inputs. The outputs will directly follow the data inputs when the count/load is low, but will remain unchanged when the count/load is high and the clock inputs are inactive.

These high-speed counters will accept count frequencies of 0 to 40 MHz at the clock 1 input and 0 to 20 MHz at the clock 2 input. During the count operation, transfer of information to the outputs occurs on the negative-going edge of the clock pulse. The counters feature a direct clear which when taken low sets all outputs low regardless of the states of the clocks.

All inputs are diode-clamped to minimize transmission line effects and simplify system design. The circuits are compatible with most TTL and DTL logic families. Typical power dissipation is 150 mW.

## FEATURES

- Performs BCD, bi-quinary, or binary counting
- Fully independent clear input
- Guaranteed to count at input frequencies from 0 to 40 MHz
- Input clamping diodes simplify system design

## ABSOLUTE MAXIMUM RATINGS

Supply Voltage, $V_{CC}$ ....................................................... 5.25V
Input Voltage ....................................................................... 5.5V
Interemitter Voltage ........................................................... 5.5V
Storage Temperature Range ................................. -65°C to +150°C
Lead Temperature (Soldering, 10 seconds) ...................... 300°C
Supply Voltage ($V_{CC}$) ........................................... 4.75—5.25V
Temperature ($T_A$) ........................................... 0°C to 70°C

## LOGIC DIAGRAM



## PIN CONNECTION



TOP VIEW

Dual-In-Line Package
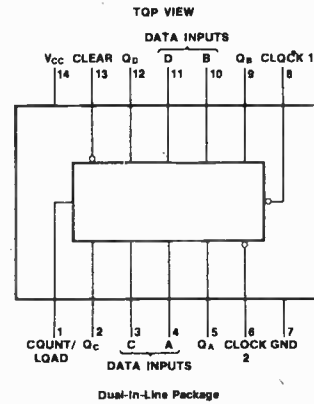
## TRUTH TABLES

DECADE (BCD)
74196 (Note A)

| COUNT | OUTPUT | | | |
|-------|------|------|------|------|
|       | $Q_D$ | $Q_C$ | $Q_B$ | $Q_A$ |
| 0 | L | L | L | L |
| 1 | L | L | L | H |
| 2 | L | L | H | L |
| 3 | L | L | H | H |
| 4 | L | H | L | L |
| 5 | L | H | L | H |
| 6 | L | H | H | L |
| 7 | L | H | H | H |
| 8 | H | L | L | L |
| 9 | H | L | L | H |

BI-QUINARY (5-2)
74196 (Note B)

| COUNT | OUTPUT | | | |
|-------|------|------|------|------|
|       | $Q_A$ | $Q_D$ | $Q_C$ | $Q_B$ |
| 0 | L | L | L | L |
| 1 | L | L | L | H |
| 2 | L | L | H | L |
| 3 | L | L | H | H |
| 4 | L | H | L | L |
| 5 | H | L | L | L |
| 6 | H | L | L | H |
| 7 | H | L | H | L |
| 8 | H | L | H | H |
| 9 | H | H | L | L |

Note A: Output $Q_A$ connected to clock 2 input.

Note B: Output $Q_D$ connected to clock 1 input.
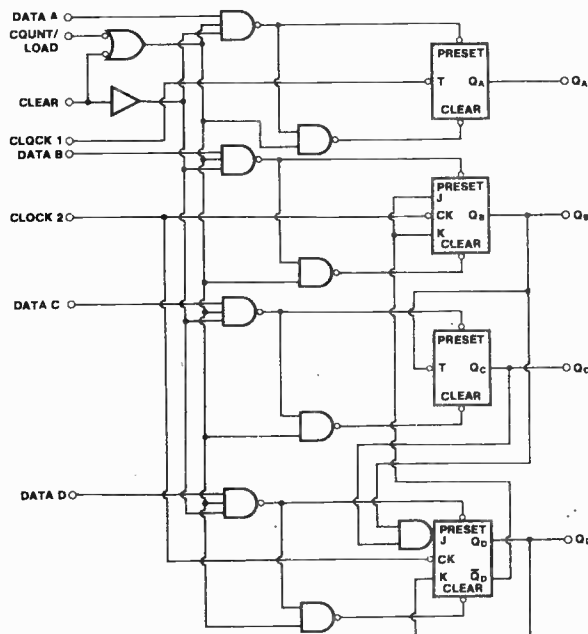
# SPECIAL PURPOSE DEVICES

## SCR'S

| Catalog Number | Imax A | Vmax V | $I_{GT}$ (max) mA | $V_{GT}$ (max) V | Case Style |
|---|---|---|---|---|---|
| 276-1067 | 6 | 200 | 25 | 1.5 | MU27 |
| 276-1020 | 6 | 400 | 25 | 1.5 | MU27 |

## TRIAC'S

| Catalog Number | Imax A | Vmax V | $I_{GT}$ (max) mA | $V_{GT}$ (max) V | Case Style |
|---|---|---|---|---|---|
| 276-1001 | 6 | 200 | 50 | 2.5 | TO220AB |
| 276-1000 | 6 | 400 | 50 | 2.5 | MU27 |

## DIAC

| Catalog Number | Breakover Voltage (Forward and Reverse) $V_{bo}$ volts Min | Max | Breakover Voltage Symmetry $V_{bo}$ $(1+V_{bo}1 1 V_{bo}1)$ Max Volts | Breakback Voltage Change (Forward and Reverse) $V_{bb}$ Current = 6 ma Typ | Min | Peak Breakover Current at Breakover Voltage $I_{bo}$ $\mu a$ | Color Band or Dot Identification |
|---|---|---|---|---|---|---|---|
| 276-1050 | 30 | 40 | 2 | 4 | 3 | 50 | Orange |

# IMPORTANT SUGGESTIONS ON THE USE
# AND REPLACEMENT OF TRANSISTORS

You can use various styles and sizes of transistors in any given circuit application, as long as the electrical characteristics of the device are within the required range of operation. Thus, a tab-type device can be used to replace a TO-3 or TO-66 case device; or a small epoxy-type device can be used in place of TO-5 or other size transistor.

Generally speaking, you must observe the following maximum characteristics of a transistor when contemplating substitution or selection:

Power dissipation
Maximum collector current
Maximum collector-to-emitter voltage
Maximum collector-to-base voltage
Maximum emitter-to-base voltage

Also, it is useful to consider the following characteristics for actual circuit operation:

Gain
Frequency limitations

**Caution:** It may be necessary in some cases to adjust bias values to achieve required operation. With tuned circuits, it is a good practice to check alignment after replacing any transistor.

When replacing power transistors, always check driver devices to be sure they are OK. Also, check other circuit components to be sure they were not shorted (or otherwise defective) when the original device failed. If you fail to correct such problems before applying power to the circuit once again, the replacement transistor could easily be permanently damaged. Be sure to use proper heat-sink precautions and use silicon grease to reduce the thermal resistance between the case of the transistor and the heat-sink.

Always observe temperature limitations as specified with transistor ratings.

It almost goes without saying, but let us remind you anyway—

Always observe voltage polarity with all semiconductor devices.

# CROSS-REFERENCE/SUBSTITUTION LISTING

Most users of semiconductors realize that it is almost impossible to guarantee absolute equivalents (as in the case of tubes). Thus, the only way to create replacement or cross-reference listings is by carefully evaluating each characteristic of both devices (original transistor and the possible alternate). This is how the Technical Staff of Radio Shack went about preparing the following cross-reference/replacement lists.

## IMPORTANT NOTE

We caution you that in many cases the listed cross reference ARCHER device may be different in appearance, size or mounting style. Thus, before beginning replacement or installation procedures, check to be sure you have enough room for proper mounting.

Also, when making substitutions or replacements in radio or high frequency circuitry, it may be necessary to realign tunable circuit elements.

This is true even when making **exact** replacements (junction capacitances normally vary between devices even from the same production run).

Information contained in this guide is based on the latest available data and is believed to be accurate. Every care has been taken to assure technical accuracy. However, Radio Shack does not assume responsibility for any contingencies of the use of this information. Nor does Radio Shack assume any responsibility for any infringements of patents or other rights of third parties which may result from its use.

When you are looking for a specific number and it does not show up in the following listing— refer to the technical data provided for our line of ARCHER devices. With this information you probably will be able to make a suitable substitution.

# ARCHER SEMICONDUCTOR REPLACEMENT GUIDE

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0000000FR1 | 1104 | 0002SC1023 | 2011 | 002-12000 | 2009 | 01-119185-01 | 1725 | 09-302078 | 2009 | 09-306060 | 1102 | 09-306276 | 1102 |
| 0000000FR2 | 1104 | 0002SC1026 | 2011 | 002SC668D | 2011 | 01-119185-02 | 1725 | 09-302079 | 2011 | 09-306061 | 1123 | 09-306283 | 1102 |
| 0000000FRI | 1104 | 0002SC1026A | 2011 | 002SC735-OY | 2009 | 01-119185-03 | 1725 | 09-302092 | 2011 | 09-306062 | 1102 | 09-306285 | 1104 |
| 0000000MV4 | 1104 | 0002SC1026B | 2011 | 002SC7350Y | 2009 | 02-1001-1221-3 | 1123 | 09-302095 | 2013 | 09-306063 | 1104 | 09-306287 | 562 |
| 0000000S15 | 1104 | 0002SC1026C | 2011 | 002SC7350Y | 2009 | 02-1006-2/222-3 | 1102 | 09-302101 | 2009 | 09-306064 | 1123 | 09-306288 | 1102 |
| 0000000SD1 | 1104 | 0002SC1032 | 2011 | 003-00 | 2013 | 02-1078-01 | 2009 | 09-302103 | 2011 | 09-306073 | 561 | 09-306290 | 1123 |
| 0000001N60 | 1123 | 0002SC1032A | 2011 | 003-001 | 1104 | 02-3002-2/2221-3 | 1104 | 09-302106 | 2009 | 09-306077 | 1101 | 09-306291 | 1102 |
| 00000010D1 | 1104 | 0002SC1032B | 2011 | 003-005400 | 1123 | 02Z6.2 | 561 | 09-302114 | 2011 | 09-306083 | 1104 | 09-306300 | 1104 |
| 000000DS17 | 1104(2) | 0002SC1032C | 2011 | 003-006700 | 1123 | 02Z6.2A | 561 | 09-302118 | 2009 | 09-306088 | 1104 | 09-306302 | 1104 |
| 000000DS18 | 1104(2) | 0002SC1317 | 2009 | 003-007500 | 1123 | 02Z-9.1A | 562 | 09-302122 | 2041 | 09-306089 | 1101 | 09-306303 | 1104 |
| 000000DS-38 | 1104 | 0004-003500 | 1104 | 003-009000 | 1123 | 02Z9.1A | 562 | 09-302124 | 2009 | 09-306091 | 1123 | 09-306309 | 1102 |
| 000000DS38 | 1104 | 000546-1 | 2009 | 003-009100 | 564 | 02Z12A | 563 | 09-302129 | 2011 | 09-306093 | 1123 | 09-306311 | 1114 |
| 000000SD1AB | 1104 | 000653 | 2009 | 003-009200 | 563 | 02Z62A | 561 | 09-302131 | 2009 | 09-306100 | 1104 | 09-306312 | 1104 |
| 000000SD1Y | 1104 | 000704 | 2009 | 003-009400 | 1104 | 02Z102A | 562 | 09-302138 | 2011 | 09-306103 | 1104 | 09-306313 | 1102 |
| 000000SD46 | 1123 | 0001849R | 1104 | 003-009600 | 1123 | 03-0018-0 | 1104 | 09-302140 | 2009 | 09-306104 | 1104 | 09-306315 | 1104 |
| 000001S188 | 1123 | 000RS1542 | 1104 | 003-009700 | 563 | 03-0021-0 | 1123 | 09-302142 | 2011 | 09-306106 | 562 | 09-306323 | 1104 |
| 000001S331 | 561 | 000SD-1AUF | 1102 | 003-009900 | 1104 | 03-0063-04 | 1102 | 09-302143 | 2011 | 09-306107 | 1123 | 09-306326 | 1102 |
| 000001S334 | 562 | 000WG1010 | 1102 | 003-01 | 2013 | 03-034-042 | 1122 | 09-302144 | 2011 | 09-306108 | 1123 | 09-306327 | 562 |
| 000001S990 | 1102 | 001-00 | 2009 | 003-010000 | 563 | 03-160 | 1123 | 09-302145 | 2011 | 09-306110 | 1102 | 09-306330 | 1123 |
| 0000010DC1 | 1104 | 001-0010-00 | 1123 | 004-00 | 2009 | 03-1585/G | 2009 | 09-302148 | 2009 | 09-306112 | 1104 | 09-306331 | 1123 |
| 00000DS18 | 1104 | 001-0020-00 | 1104 | 004-00(LAST-IF) | 2010 | 03-3016 | 1104 | 09-302151 | 2011 | 09-306113 | 1102 | 09-306332 | 562 |
| 00000DS131 | 1104 | 001-0072-00 | 1114 | 004-0020-00 | 1104 | 04-000653 | 1122 | 09-302152 | 2011 | 09-306115 | 1104 | 09-306333 | 1104 |
| 00000DS410 | 1102 | 001-0077-00 | 1104 | 004-002700 | 1104 | 04-00460-03 | 2009 | 09-302153 | 2009 | 09-306119 | 1104 | 09-306334 | 1123 |
| 00000FR202 | 1104 | 001-0081 | 1123 | 004-002800 | 1104 | 04-00461-02 | 2011 | 09-302165 | 2009 | 09-306124 | 562 | 09-306336 | 1123 |
| 00000S1B01 | 1104 | 001-0081-00 | 1104 | 004-003000 | 1104 | 04-00535-02 | 2011 | 09-302172 | 2009 | 09-306125 | 1104 | 09-306339 | 1123 |
| 00000WZ090 | 562 | 001-0095-00 | 1102 | 004-003300 | 1104 | 04-01585-06 | 2009 | 09-302175 | 2009 | 09-306129 | 1102 | 09-306341 | 1104 |
| 0000-00011-046 | 1102 | 001-0101-01 | 562 | 004-003400 | 1104 | 04-01585-07 | 2009 | 09-302189 | 2009 | 09-306134 | 1102 | 09-306349 | 1123 |
| 0000-00011-049 | 2009 | 001-0151-00 | 1102 | 004-003600 | 1104 | 04-01585-08 | 2011 | 09-302191 | 2030 | 09-306138 | 1104 | 09-306350 | 1104 |
| 0000-00011-054 | 2035 | 001-01101-0 | 2001 | 004-003900 | 1104 | 04-02090-02 | 2009 | 09-302192 | 2020 | 09-306145 | 1102 | 09-306351 | 562 |
| 0000-00011-055 | 2035 | 001-01202-1 | 2007 | 004-004000 | 1104 | 04-8054-3 | 1104 | 09-302193 | 2020 | 09-306148 | 1102 | 09-306353 | 1104 |
| 00001N60 | 1123 | 001-01203-1 | 2007 | 004-004100 | 1104 | 04-8054-4 | 1104 | 09-302200 | 2010 | 09-306149 | 1104 | 09-306365 | 1104 |
| 00001S155 | 1102 | 001-01501-0 | 1123 | 004-009200 | 1104 | 04-8054-7 | 1104 | 09-302203 | 2011 | 09-306154 | 1102 | 09-306366 | 1104 |
| 00001S188 | 1123 | 001-02011 | 2009 | 004-03300 | 1104 | 04-15850-06 | 2011 | 09-302204 | 2011 | 09-306157 | 1104 | 09-306367 | 564 |
| 00001S188AM | 1123 | 001-02020 | 2009 | 004-03500 | 1104 | 04-38190-01 | 2035 | 09-302206 | 2013 | 09-306158 | 562 | 09-306368 | 1102 |
| 00001S334 | 562 | 001-02101-0 | 2009 | 004-03600 | 1104 | 04-46000-02 | 2009 | 09-302207 | 2013 | 09-306159 | 1102 | 09-306370 | 1123 |
| 00001S446D | 1123 | 001-02101-1 | 2009 | 004-03700 | 1104 | 05-00000-00 | 1123 | 09-302215 | 2009 | 09-306160 | 1104 | 09-306373 | 1102 |
| 00001S1210 | 1102 | 001-02102-0 | 2009 | 005-02 | 2009 | 05-00060-00 | 1123 | 09-302222 | 2011 | 09-306161 | 1102 | 09-306375 | 562 |
| 00001S1555 | 1102 | 001-02103-0 | 2009 | 006-0000004 | 1122 | 05-00060-01 | 1123 | 09-302224 | 2013 | 09-306162 | 1102 | 09-306376 | 1104 |
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| 00001S1849R | 1104(2) | 001-02105-0 | 2009 | 006-6400902 | 1122 | 05-02160-01 | 1102 | 09-303025 | 2009 | 09-306165 | 562 | 09-306382 | 562 |
| 00001S2076 | 1102 | 001-02106-0 | 2009 | 006-6450032 | 2009 | 05-03016-01 | 1104 | 09-303042 | 2013 | 09-306169 | 1102(2) | 09-306383 | 561 |
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| 00002SC460 | 2011 | 001-02110-0 | 2009 | 007-6060-00 | 1122 | 07-07129 | 2013 | 09-304043 | 2013 | 09-306176 | 1104 | 09-306391 | 563 |
| 00002SC535 | 2011 | 001-02111-0 | 2009 | 007-25005-01 | 1122 | 07-07139 | 2009 | 09-304044 | 2009 | 09-306177 | 1104 | 09-306394 | 1104 |
| 00002SC537 | 2009 | 001-02111-1 | 2009 | 007-25013-01 | 1122 | 07-07156 | 2009 | 09-304044(LAST-IF) | 2010 | 09-306178 | 1102 | 09-306421 | 1104 |
| 00002SC735 | 2009 | 001-02113-2 | 2009 | 007-25016-01 | 1122 | 07-07158 | 2035 | 09-304045 | 2009 | 09-306179 | 563 | 09-306422 | 1104 |
| 00002SC772 | 2011 | 001-02113-3 | 2009 | 007-74655-02 | 2009 | 07-07159 | 2035 | 09-304046 | 2012 | 09-306180 | 562 | 09-306423 | 1104 |
| 00002SC828 | 2009 | 001-02113-4 | 2009 | 007-74655-06 | 2009 | 07-07166 | 2009 | 09-304048 | 2009 | 09-306183 | 561 | 09-306424 | 1114 |
| 00002SC829 | 2011 | 001-02113-5 | 2009 | 007-74661-01 | 2009 | 07-1458-85 | 2009 | 09-304058 | 2009 | 09-306192 | 1104 | 09-307039 | 1102 |
| 00002SC838 | 2009 | 001-02121-0 | 2009 | 007-1669901 | 1740 | 07-5134-14 | 1123 | 09-305007 | 2011 | 09-306194 | 562 | 09-307043 | 1104 |
| 00002SC870 | 2009 | 001-02303-3 | 561 | 007-7450301 | 2041 | 07-5134-14A | 1123 | 09-305014 | 2035 | 09-306195 | 1102 | 09-307045 | 1102 |
| 00002SC870A | 2009 | 001-02303-4 | 564 | 007-7466101 | 2009 | 07-5134-14B | 1123 | 09-305021 | 2035 | 09-306199 | 1102 | 09-307055 | 1102 |
| 00002SC870B | 2009 | 001-02405-0 | 1104 | 008-024-00 | 1104 | 07-5134-14C | 1123 | 09-305023 | 2035 | 09-306200 | 1123 | 09-307075 | 1102 |
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| 00002SC968 | 2009 | 001-02405-2 | 1104 | 0013-911 | 1104 | 07-5160-15A | 1101 | 09-305032 | 2035 | 09-306205 | 1104 | 09-307081 | 1102 |
| 00002SC1023 | 2009 | 001-02601-0 | 1104 | 0014-911 | 1102 | 07-5160-15B | 1101 | 09-305033 | 2011 | 09-306206 | 1102 | 09-307083 | 1102 |
| 000010DC1R | 1104(2) | 001-02603-0 | 1104 | 0015-911 | 1104 | 07-5160-15C | 1101 | 09-305034 | 2009 | 09-306208 | 561 | 09-307084 | 1104 |
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| 000072050 | 1104 | 001-02702-0 | 2035 | 001422 | 2009 | 08 | 562 | 09-305041 | 2011 | 09-306210 | 1101 | 09-307089 | 1102 |
| 000072090 | 1123 | 001-02703-0 | 2036 | 004567 | 1104 | 08-0040 | 1104 | 09-305050 | 2013 | 09-306211 | 1101 | 09-308072 | 2011 |
| 000072130 | 1102 | 001-011010 | 2001 | 004763 | 1102 | 08-0821 | 1104 | 09-305051 | 2013 | 09-306211(RECT) | 1102 | 09-308078 | 702 |
| 000072150 | 562 | 001-015010 | 1123 | 004792 | 2011 | 08-08111 | 1123 | 09-305062 | 2009 | 09-306212(RECTIFIER) | 1114 | 09-309006 | 2009 |
| 000072160 | 1123 | 001-015011 | 1123 | 004887 | 563 | 08-08112 | 1123 | 09-305063 | 2009 | 09-306213 | 1104 | 09-309012 | 2009 |
| 000072190 | 562 | 001-021010 | 2009 | 0012060 | 1123 | 08-08117 | 1102 | 09-305064 | 2009 | 09-306214 | 1104 | 09-309023 | 2009 |
| 000073090 | 2009 | 001-021020 | 2009 | 0023645 | 2011 | 08-08119 | 1102 | 09-305066 | 2009 | 09-306216 | 1101 | 09-309049 | 2009 |
| 000073100 | 2009 | 001-021030 | 2009 | 0023828 | 2009 | 08-08120 | 564 | 09-305067 | 2009 | 09-306219 | 1102 | 09-309050 | 2009 |
| 000073120 | 2009 | 001-021040 | 2009 | 0023829 | 2011 | 08-08122 | 1104 | 09-305068 | 2009 | 09-306220 | 1102 | 09-309060 | 2009 |
| 000073130 | 2009 | 001-021050 | 2009 | 0099203-005 | 1104 | 08-08125 | 562 | 09-305077 | 2009 | 09-306221 | 1102 | 09-309064 | 2009 |
| 000073140 | 2013 | 001-021060 | 2009 | 0099203-007 | 1104 | 08-302152 | 2013 | 09-305093 | 2013 | 09-306222 | 1123 | 09-309065 | 2013 |
| 000073230 | 2009 | 001-021070 | 2009 | 00352080 | 2009 | 08A159-007 | 1102 | 09-305094 | 2013 | 09-306223 | 1102 | 09-309069 | 2011 |
| 000073231 | 2009 | 001-021080 | 2009 | 01-1501 | 1102 | 08A165-001 | 1102 | 09-305096 | 2013 | 09-306226 | 1114 | 09-309072 | 2011 |
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| 000073310 | 2009 | 001-021110 | 2009 | 01-2101-0 | 2009 | 09-002012 | 2009 | 09-305135 | 2035 | 09-306232 | 562 | 09-309076 | 2009 |
| 000073332 | 2009 | 001-021111 | 2009 | 01-2102 | 2009 | 09-306-083 | 1104 | 09-305137 | 2020 | 09-306233 | 1102 | 09-309672 | 2011 |
| 000073333 | 2009 | 001-021132 | 2009 | 01-2104 | 2009 | 09-30012 | 2004 | 09-305139 | 2009 | 09-306236 | 1102 | 09-3002006 | 2013 |
| 000073370 | 2010 | 001-021134 | 2009 | 01-2105 | 2009 | 09-300084 | 2004 | 09-305148 | 2031 | 09-306239 | 562 | 09-3060111 | 1102 |
| 000073390 | 2009 | 001-021135 | 2009 | 01-2106 | 2009 | 09-302002 | 2013 | 09-305152 | 2031 | 09-306241 | 562 | 09N1 | 2009 |
| 000073391 | 2009 | 001-021210 | 2009 | 01-2107 | 2009 | 09-302003 | 2013 | 09-306002 | 1123 | 09-306244 | 1122 | 010-694 | 2012 |
| 0000DS410 | 1102 | 001-021232 | 2009 | 01-2108 | 2009 | 09-302004 | 2010 | 09-306009 | 1123 | 09-306245 | 1104 | 011-H01 | 2007 |
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| 0000FR202 | 1104 | 001-226010 | 1122 | 01-2405-0 | 1104 | 09-302007 | 2009 | 09-306012 | 1123 | 09-306248 | 1102 | 012-0121-001 | 1102 |
| 0000RS1542 | 1104 | 002-006500 | 2009 | 01-2405-1 | 1104 | 09-302008 | 2009 | 09-306020 | 1123 | 09-306249 | 1104 | 012-1 | 2009 |
| 0000SD1 | 1123 | 002-008300 | 2031 | 01-2405-2 | 1104 | 09-302014 | 2011 | 09-306024 | 564 | 09-306250 | 1104 | 012-1-12 | 2009 |
| 0000SD-1AUF | 1104 | 002-009500 | 2009 | 01-2406-1 | 1104 | 09-302016 | 2010 | 09-306033 | 1104 | 09-306254 | 1104 | 012-1-12-7 | 2009 |
| 0000SD46 | 1123 | 002-009501 | 2009 | 01-2601 | 1102 | 09-302019 | 2009 | 09-306036 | 1104 | 09-306255 | 1104 | 012-1020-005 | 1102 |
| 0000WZ090 | 562 | 002-009502 | 2009 | 01-2601-0 | 1102 | 09-302032 | 2011 | 09-306037 | 1123 | 09-306257 | 1102 | 012-1021-001 | 1102 |
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| 1A9.1MA | 562 | 1ET05 | 1104 | 1N60 | 1123 | 1N116A | 1123 | 1N297A | 1123 | 1N433 | 1102 | 1N527 | 1123 |
| 1A12M | 563 | 1ET1 | 1104 | 1N60(TV)(FA-1) | 1123 | 1N117 | 1123 | 1N298 | 1123 | 1N433A | 1102 | 1N530 | 1104 |
| 1A12MA | 563 | 1ET2 | 1104 | 1N60/0112-0028-6438 | | 1N117A | 1123 | 1N298A | 1123 | 1N433B | 1102 | 1N531 | 1104 |
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| 1A15MA | 564 | 1ET4 | 1104 | 1N60/3490 | 1123 | 1N118A | 1123 | 1N299B | 1101 | 1N434A | 1102 | 1N533 | 1104 |
| 1A35 | 1122 | 1ET5 | 1104 | 1N60/4454C | 1123 | 1N119 | 1123 | 1N300 | 1102 | 1N434B | 1102 | 1N534 | 1104 |
| 1A50 | 1104 | 1ET6 | 1104 | 1N60-M3 | 1123 | 1N119A | 1123 | 1N300A | 1102 | 1N435 | 1123 | 1N535 | 1104 |
| 1A62 | 561 | 1ET7 | 1114 | 1N60-P | 1123 | 1N120 | 1123 | 1N300B | 1102 | 1N440 | 1104 | 1N536 | 1104 |
| 1A4757-1 | 2009 | 1ET8 | 1114 | 1N60-S | 1123 | 1N120A | 1123 | 1N301 | 1102 | 1N440B | 1104 | 1N537 | 1104 |
| 1A10425 | 1104 | 1ET10 | 1114 | 1N60-T | 1123 | 1N124 | 1101 | 1N301A | 1102 | 1N441 | 1104 | 1N538 | 1104 |
| 1A10952 | 1104 | 1EZ9.1 | 562 | 1N60-Z | 1123 | 1N124A | 1101 | 1N301B | 1102 | 1N441B | 1104 | 1N539 | 1104 |
| 1A11184 | 1104 | 1EZ12 | 563 | 1N60A | 1123 | 1N125 | 1123 | 1N303 | 1102 | 1N442 | 1104 | 1N540 | 1104 |
| 1A11306 | 1123 | 1EZ15 | 564 | 1N60C | 1123 | 1N126 | 1123 | 1N303A | 1102 | 1N442B | 1104 | 1N541 | 1123 |
| 1A11671 | 1104 | 1F05 | 1104 | 1N60D | 1123 | 1N126A | 1123 | 1N303B | 1102 | 1N443 | 1104 | 1N542 | 1123 |
| 1A12214 | 1104 | 1F2 | 1104 | 1N60F | 1123 | 1N128 | 1123 | 1N304 | 1123 | 1N443B | 1104 | 1N547 | 1104 |
| 1A12407 | 1104 | 1F8 | 1114 | 1N60FM | 1123 | 1N128A | 1123 | 1N305 | 1123 | 1N444 | 1104 | 1N548 | 1114 |
| 1A12688 | 562 | 1F14A | 1104 | 1N60FMX | 1123 | 1N132 | 1123 | 1N306 | 1123 | 1N444B | 1104 | 1N550 | 1104 |
| 1A12689 | 1123 | 1FM2 | 1104 | 1N60G | 1123 | 1N133 | 1123 | 1N307 | 1123 | 1N445 | 1104 | 1N554 | 1104 |
| 1A12690 | 1104 | 1G01 | 1123 | 1N60GA | 1123 | 1N134 | 1123 | 1N308 | 1123 | 1N445B | 1104 | 1N555 | 1104 |
| 1A13219 | 1104 | 1G02 | 1123 | 1N60GB | 1123 | 1N135 | 1102 | 1N309 | 1123 | 1N447 | 1123 | 1N560 | 1114 |
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| 1A13720 | 1104 | 1G2Z1 | 1104 | 1N60P | 1123 | 1N137B | 1102 | 1N312 | 1123 | 1N449 | 1123 | 1N564 | 1123 |
| 1A14384 | 1123 | 1G8 | 1114 | 1N6uS | 1123 | 1N138 | 1102 | 1N314 | 1123 | 1N450 | 1104 | 1N568 | 1102 |
| 1A15790 | 1104 | 1G25 | 1123 | 1N60SD60 | 1123 | 1N138A | 1102 | 1N315 | 1104 | 1N451 | 1104 | 1N569 | 1123 |
| 1A16549 | 1102 | 1G86 | 1123 | 1N60TV | 1123 | 1N138B | 1102 | 1N315A | 1104 | 1N452 | 1123 | 1N571 | 1123 |
| 1A16550 | 1104 | 1GA | 1104 | 1N60TVGL | 1123 | 1N139 | 1123 | 1N316 | 1104 | 1N453 | 1104 | 1N596 | 1104 |
| 1A16551 | 1102 | 1GD2 | 1123 | 1N62 | 1123 | 1N140 | 1123 | 1N316A | 1104 | 1N454 | 1123 | 1N597 | 1114 |
| 1A69425-1 | 1122 | 1GD4 | 1123 | 1N63 | 1123 | 1N142 | 1123 | 1N317 | 1104 | 1N455 | 1123 | 1N599 | 1104 |
| 1A99812-1001 | 1122 | 1GD5X | 1123 | 1N63A | 1123 | 1N143 | 1123 | 1N317A | 1104 | 1N456 | 1102 | 1N599A | 1104 |
| 1AC12 | 563 | 1GD6 | 1123 | 1N64 | 1123 | 1N144 | 1123 | 1N318 | 1104 | 1N456A | 1102 | 1N600 | 1104 |
| 1AC12A | 563 | 1GD10 | 1123 | 1N64A | 1123 | 1N145 | 1123 | 1N318A | 1104 | 1N457 | 1102 | 1N601 | 1104 |
| 1AC12B | 563 | 1HY40 | 1104 | 1N64B | 1123 | 1N147 | 1101 | 1N319 | 1104 | 1N457A | 1102 | 1N601A | 1104 |
| 1AC15 | 564 | 1HY50 | 1104 | 1N64G | 1123 | 1N147A | 1101 | 1N319A | 1104 | 1N457M | 1102 | 1N602 | 1104 |
| 1AC15A | 564 | 1HY80 | 1114 | 1N64GA | 1123 | 1N148 | 1123 | 1N320 | 1104 | 1N458 | 1102 | 1N602A | 1104 |
| 1AC15B | 564 | 1HY100 | 1114 | 1N65 | 1123 | 1N151 | 1104 | 1N320A | 1104 | 1N458A | 1102 | 1N603A | 1104 |
| 1B05J20 | 1104 | 1J1 | 2009 | 1N65A | 1123 | 1N152 | 1104 | 1N321 | 1104 | 1N458M | 1102 | 1N604 | 1104 |
| 1B05J40 | 1104 | 1JZ61 | 1104 | 1N66 | 1123 | 1N153 | 1104 | 1N321A | 1114 | 1N459 | 1102 | 1N604A | 1104 |
| 1B2 | 1104 | 1K60 | 1123 | 1N66A | 1123 | 1N158 | 1104 | 1N322 | 1114 | 1N459A | 1102 | 1N605 | 1104 |
| 1B-2C1 | 1104(2) | 1K60A | 1123 | 1N67 | 1123 | 1N169 | 1104 | 1N322A | 1114 | 1N459M | 1102 | 1N605A | 1104 |
| 1B10J20 | 1104 | 1M6.2ZS5 | 561 | 1N67A | 1123 | 1N172 | 1101 | 1N323 | 1104 | 1N460 | 1102 | 1N606 | 1104 |
| 1B759 | 563 | 1M6.2ZS10 | 561 | 1N68 | 1123 | 1N173 | 1101 | 1N323A | 1104 | 1N460A | 1102 | 1N613 | 1104 |
| 1B2992 | 1122 | 1M9.1Z | 562 | 1N68A | 1123 | 1N191 | 1123 | 1N324 | 1104 | 1N460B | 1102 | 1N613A | 1104 |
| 1C0009 | 1104 | 1M9.1Z10 | 562 | 1N69 | 1123 | 1N192 | 1123 | 1N324A | 1104 | 1N461 | 1102 | 1N614 | 1104 |
| 1C0017 | 1104 | 1M9.1ZS5 | 562 | 1N69A | 1123 | 1N193 | 1104 | 1N325 | 1104 | 1N461A | 1102 | 1N616 | 1123 |
| 1C0025 | 1104 | 1M9.1ZS10 | 562 | 1N70 | 1123 | 1N194 | 1102 | 1N325A | 1104 | 1N462 | 1102 | 1N617 | 1123 |
| 1C0026 | 1104 | 1M12Z | 563 | 1N70A | 1123 | 1N194A | 1102 | 1N326 | 1104 | 1N462A | 1102 | 1N619 | 1102 |
| 1C0029 | 1123 | 1M12Z10 | 563 | 1N71 | 1123 | 1N195 | 1102 | 1N326A | 1104 | 1N463 | 1102 | 1N622 | 1102 |
| 1C0031 | 1104 | 1M12Z5 | 563 | 1N72 | 1123 | 1N196 | 1102 | 1N327 | 1104 | 1N463A | 1102 | 1N625 | 1102 |
| 1C0039 | 1123 | 1M12ZS5 | 563 | 1N72G | 1123 | 1N198 | 1123 | 1N327A | 1104 | 1N464 | 1102 | 1N625A | 1102 |
| 1C05 | 1104(2) | 1M12ZS10 | 563 | 1N73 | 1123 | 1N198A | 1123 | 1N328 | 1114 | 1N464A | 1102 | 1N625M | 1102 |
| 1C1 | 1104(2) | 1M15Z | 564 | 1N74 | 1123 | 1N198B | 1123 | 1N328A | 1114 | 1N476 | 1123 | 1N626 | 1102 |
| 1C2 | 1104(2) | 1M15Z5 | 564 | 1N75A | 1123 | 1N200 | 1102 | 1N329 | 1114 | 1N477 | 1123 | 1N626A | 1102 |
| 1C4 | 1104(2) | 1M15ZS5 | 564 | 1N76 | 1123 | 1N201 | 1102(2) | 1N329A | 1114 | 1N478 | 1123 | 1N626M | 1102 |
| 1C6 | 1104(2) | 1M15ZS10 | 564 | 1N76A | 1123 | 1N202 | 1102 | 1N331 | 1102 | 1N479 | 1123 | 1N627 | 1102 |
| 1C10 | 1114 | 1M753A | 561 | 1N76C | 1123 | 1N203 | 1102 | 1N348 | 1104 | 1N480 | 1123 | 1N627A | 1102 |
| 1C12Z | 563 | 1M1614D | 2009 | 1N76G | 1123 | 1N204 | 1102 | 1N350 | 1102 | 1N480B | 1104 | 1N628 | 1102 |
| 1C12ZA | 563 | 1M2086 | 1104 | 1N81 | 1123 | 1N205 | 1102 | 1N351 | 1102 | 1N482 | 1102 | 1N628A | 1102 |
| 1C15Z | 564 | 1M8513A | 1104 | 1N81A | 1123 | 1N206 | 1102(2) | 1N352 | 1102 | 1N482A | 1102 | 1N629 | 1102 |
| 1C15ZA | 564 | 1MA4 | 1104 | 1N82 | 1101 | 1N207 | 1102 | 1N353 | 1102(2) | 1N482B | 1102 | 1N629A | 1102 |
| 1C3576 | 2009 | 1N10 | 1123 | 1N82A | 1101 | 1N208 | 1102 | 1N354 | 1123 | 1N482C | 1102 | 1N631 | 1123 |
| 1D08 | 564 | 1N10D-4F | 1104 | 1N82AG | 1101 | 1N209 | 1102(2) | 1N355 | 1123 | 1N483 | 1102 | 1N632 | 1123 |
| 1D098-001V-022 | 1102 | 1N22 | 1123 | 1N82D | 1101 | 1N210 | 1102 | 1N359 | 1104 | 1N483A | 1102 | 1N633 | 1102 |
| 1D1 | 1104(2) | 1N31A | 1123 | 1N82G | 1101 | 1N211 | 1102 | 1N359A | 1104 | 1N483AM | 1102 | 1N636 | 1123 |
| 1D2 | 1104(2) | 1N34 | 1123 | 1N84 | 1123 | 1N212 | 1102 | 1N360 | 1104 | 1N483B | 1102 | 1N636A | 1123 |
| 1D2Z1 | 1104 | 1N34A | 1123 | 1N86 | 1123 | 1N213 | 1102 | 1N360A | 1104 | 1N483BM | 1102 | 1N643 | 1102 |
| 1D6 | 1104(2) | 1N34AM | 1123 | 1N86AG | 1123 | 1N214 | 1102 | 1N361 | 1104 | 1N483C | 1102 | 1N643A | 1102 |
| 1D6.2 | 561 | 1N34AS | 1123 | 1N87 | 1123 | 1N215 | 1102 | 1N361A | 1104 | 1N484 | 1102 | 1N645 | 1104 |
| 1D6.2A | 561 | 1N34A-Z | 1123 | 1N87A | 1123 | 1N216 | 1102 | 1N362 | 1104 | 1N484A | 1102 | 1N645A | 1104 |
| 1D6.2B | 561 | 1N34GA | 1123 | 1N87G | 1123 | 1N217 | 1102 | 1N362A | 1104 | 1N484B | 1102 | 1N645B | 1104 |
| 1D6.2SA | 561 | 1N34M | 1123 | 1N87GA | 1123 | 1N218 | 1102 | 1N363 | 1104 | 1N484C | 1102 | 1N646 | 1104 |
| 1D6.2SB | 561 | 1N34Z | 1123 | 1N87S | 1123 | 1N225 | 562 | 1N363A | 1104 | 1N485 | 1102 | 1N647 | 1104 |
| 1D8 | 1114 | 1N35 | 1123 | 1N87T | 1123 | 1N225A | 562 | 1N364 | 1114 | 1N485A | 1102 | 1N648 | 1104 |
| 1D10 | 1114 | 1N36 | 1123 | 1N88 | 1123 | 1N228 | 564 | 1N364A | 1114 | 1N485B | 1102 | 1N649 | 1104 |
| 1D261 | 1104 | 1N38 | 1123 | 1N89 | 1123 | 1N251 | 1102 | 1N365 | 1114 | 1N485C | 1102 | 1N658 | 1102 |
| 1DC1 | 1104 | 1N38A | 1123 | 1N90 | 1123 | 1N251A | 1102 | 1N365A | 1114 | 1N486 | 1102 | 1N658A | 1102 |
| 1DG2 | 1123 | 1N38B | 1123 | 1N90G | 1123 | 1N252 | 1102 | 1N367 | 1123 | 1N486A | 1102 | 1N658M | 1102 |
| 1E05 | 1104 | 1N40 | 1123 | 1N90GA | 1123 | 1N252A | 1102 | 1N367B | 1123 | 1N486B | 1102 | 1N659 | 1102 |
| 1E1 | 1104 | 1N41 | 1123 | 1N91 | 1104 | 1N255 | 1104 | 1N368 | 1104 | 1N497 | 1123 | 1N659/A | 1102 |
| 1E2 | 1104 | 1N43 | 1123 | 1N92 | 1104 | 1N256 | 1104 | 1N379 | 1102(2) | 1N498 | 1123 | 1N660 | 1102 |
| 1E2Z5 | 563 | 1N44 | 1123 | 1N93 | 1104 | 1N265 | 1123 | 1N380 | 1102 | 1N500 | 1123 | 1N660A | 1102 |
| 1E3 | 1104 | 1N45 | 1123 | 1N93A | 1104 | 1N266 | 1123 | 1N381 | 1102 | 1N503 | 1104 | 1N661 | 1102 |
| 1E4 | 1104 | 1N45A | 1123 | 1N95 | 1123 | 1N267 | 1123 | 1N382 | 1102 | 1N504 | 1104 | 1N661A | 1102 |
| 1E5 | 1104 | 1N46 | 1123 | 1N96 | 1123 | 1N268 | 1123 | 1N383 | 1102 | 1N505 | 1104 | | |
| 1E6 | 1104 | 1N46A | 1123 | 1N96A | 1123 | 1N270 | 1123 | 1N384 | 1102(2) | 1N506 | 1104 | | |
| 1E7 | 1114 | 1N47 | 1123 | 1N97 | 1123 | 1N273 | 1123 | 1N385 | 1102(2) | 1N507 | 1104 | | |
| 1E8 | 1114 | 1N48 | 1123 | 1N97A | 1123 | 1N276 | 1123 | 1N386 | 1102 | 1N508 | 1104 | | |
| 1E9.1Z | 562 | | | 1N98 | 1123 | 1N277 | 1123 | 1N387 | 1102(2) | 1N509 | 1114 | | |
| 1E9.1Z10 | 562 | | | 1N98A | 1123 | 1N278 | 1123 | 1N388 | 1102(2) | 1N510 | 1114 | | |
| 1E10 | 1114 | | | 1N99 | 1123 | 1N279 | 1123 | 1N389 | 1102 | | | | |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N662 | 1102 | 1N814M | 1102 | 1N906AM | 1102 | 1N1051 | 1104 | 1N1557 | 1104 | 1N2016 | 1104 | 1N2489 | 1104 |
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| 1N663 | 1102 | 1N815M | 1102 | 1N907 | 1102 | 1N1053 | 1104 | 1N1559 | 1104 | 1N2018 | 1104 | 1N2610 | 1104 |
| 1N663A | 1102 | 1N816 | 561 | 1N907/A | 1102 | 1N1054 | 1104 | 1N1560 | 1104 | 1N2019 | 1104 | 1N2611 | 1104 |
| 1N663M | 1102 | 1N817 | 1102 | 1N907A | 1102 | 1N1055 | 1104 | 1N1561 | 1123 | 1N2020 | 1104 | 1N2612 | 1104 |
| 1N665 | 563 | 1N818 | 1102 | 1N907AM | 1102 | 1N1081 | 1104 | 1N1562 | 1123 | 1N2033 | 561 | 1N2613 | 1104 |
| 1N666 | 564 | 1N818M | 1102 | 1N907M | 1102 | 1N1081A | 1104 | 1N1563 | 1104 | 1N2033-2 | 561 | 1N2614 | 1104 |
| 1N673 | 1104 | 1N819 | 1104 | 1N908 | 1102 | 1N1082 | 1104 | 1N1563A | 1104 | 1N2035-1 | 562 | 1N2615 | 1104 |
| 1N675 | 561 | 1N821 | 561 | 1N908/A | 1102 | 1N1082A | 1104 | 1N1564 | 1104 | 1N2035-12 | 562 | 1N2620 | 562 |
| 1N676 | 1104 | 1N821A | 561 | 1N908A | 1102 | 1N1083 | 1104 | 1N1564A | 1104 | 1N2037-1 | 563 | 1N2620A | 562 |
| 1N677 | 1104 | 1N822 | 561 | 1N908AM | 1102 | 1N1083A | 1104 | 1N1565 | 1104 | 1N2037A | 563 | 1N2620B | 562 |
| 1N678 | 1104 | 1N822AG | 1101 | 1N908M | 1102 | 1N1084 | 1104 | 1N1565A | 1104 | 1N2038-1 | 564 | 1N2621 | 562 |
| 1N679 | 1104 | 1N823 | 561 | 1N909 | 1123 | 1N1084A | 1104 | 1N1566 | 1104 | 1N2038A | 564 | 1N2621A | 562 |
| 1N681 | 1104 | 1N823A | 561 | 1N910 | 1123 | 1N1093 | 1123 | 1N1566A | 1104 | 1N2046 | 563 | 1N2621B | 562 |
| 1N682 | 1104 | 1N824 | 561 | 1N911 | 1123 | 1N1095 | 1114 | 1N1567 | 1104 | 1N2069 | 1104 | 1N2622 | 562 |
| 1N683 | 1104 | 1N825 | 561 | 1N914 | 1122 | 1N1096 | 1114 | 1N1567A | 1104 | 1N2069A | 1104 | 1N2622A | 562 |
| 1N684 | 1104 | 1N825A | 561 | 1N914/A/B | 1122 | 1N1100 | 1104 | 1N1568 | 1104 | 1N2070 | 1104 | 1N2622B | 562 |
| 1N685 | 1104 | 1N827 | 561 | 1N914B | 1122 | 1N1101 | 1104 | 1N1568A | 1104 | 1N2070A | 1104 | 1N2623 | 562 |
| 1N686 | 1104 | 1N827A | 561 | 1N914M | 1122 | 1N1102 | 1104 | 1N1617 | 1104 | 1N2071 | 1104 | 1N2623A | 562 |
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| 1N689 | 1104 | 1N829A | 561 | 1N916 | 1104 | 1N1104 | 1104 | 1N1619 | 1104 | 1N2072 | 1104 | 1N2624 | 562 |
| 1N690 | 1102 | 1N835 | 1123 | 1N916A | 1102 | 1N1105 | 1104 | 1N1620 | 1104 | 1N2073 | 1104 | 1N2624A | 562 |
| 1N692 | 1102 | 1N837 | 1102 | 1N916B | 1102 | 1N1119 | 1104 | 1N1630 | 1102 | 1N2074 | 1104 | 1N2624B | 562 |
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| 1N697 | 1102 | 1N840 | 1102 | 1N921 | 1102 | 1N1169A | 1104 | 1N1646 | 1104 | 1N2077 | 1104 | 1N2801 | 1123 |
| 1N698 | 1123 | 1N840M | 1102 | 1N922 | 1102 | 1N1217 | 1104 | 1N1647 | 1104 | 1N2078 | 1104 | 1N2850 | 1104 |
| 1N709 | 561 | 1N841 | 1102 | 1N924 | 1102 | 1N1217A | 1104 | 1N1648 | 1104 | 1N2079 | 1104 | 1N2851 | 1104 |
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| 1N709B | 561 | 1N843 | 1102 | 1N926 | 1102 | 1N1218 | 1104 | 1N1650 | 1104 | 1N2081 | 1104 | 1N2858A | 1104 |
| 1N713 | 562 | 1N844 | 1102 | 1N927 | 1102 | 1N1218A | 1104 | 1N1651 | 1104 | 1N2082 | 1104 | 1N2859 | 1104 |
| 1N713A | 562 | 1N845 | 1102 | 1N928 | 1102 | 1N1218B | 1104 | 1N1652 | 1104 | 1N2083 | 1104 | 1N2859A | 1104 |
| 1N713B | 562 | 1N846 | 1104 | 1N929 | 1102(2) | 1N1219 | 1104 | 1N1653 | 1104 | 1N2084 | 1104 | 1N2860 | 1104 |
| 1N716 | 563 | 1N847 | 1104 | 1N930 | 1102 | 1N1219A | 1104 | 1N1692 | 1104 | 1N2085 | 1104 | 1N2860A | 1104 |
| 1N716(ZENER) | 563 | 1N848 | 1104 | 1N931 | 1102 | 1N1219B | 1104 | 1N1693 | 1104 | 1N2086 | 1104 | 1N2861 | 1104 |
| 1N716A | 563 | 1N849 | 1104 | 1N932 | 1102 | 1N1220 | 1104 | 1N1694 | 1104 | 1N2088 | 1104 | 1N2861A | 1104 |
| 1N716B | 563 | 1N850 | 1104 | 1N933 | 1102 | 1N1220A | 1104 | 1N1695 | 1104 | 1N2089 | 1104 | 1N2862 | 1104 |
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| 1N718A | 564 | 1N852 | 1104 | 1N935 | 562 | 1N1221 | 1104 | 1N1697 | 1104 | 1N2091 | 1104 | 1N2863 | 1104 |
| 1N718B | 564 | 1N853 | 1114 | 1N935A | 562 | 1N1221A | 1104 | 1N1701 | 1104 | 1N2092 | 1104 | 1N2863A | 1104 |
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| 1N753A | 561 | 1N856 | 1114 | 1N936A | 562 | 1N1222A | 1104 | 1N1704 | 1104 | 1N2095 | 1104 | 1N3019 | 562 |
| 1N757 | 562 | 1N857 | 1104 | 1N936B | 562 | 1N1222B | 1104 | 1N1705 | 1104 | 1N2096 | 1104 | 1N3019A | 562 |
| 1N757A | 562 | 1N858 | 1104 | 1N937 | 562 | 1N1223 | 1104 | 1N1706 | 1104 | 1N2103 | 1104 | 1N3019B | 562 |
| 1N759 | 563 | 1N859 | 1104 | 1N937A | 562 | 1N1223A | 1104 | 1N1707 | 1104 | 1N2104 | 1104 | 1N3022 | 563 |
| 1N759A | 563 | 1N860 | 1104 | 1N937B | 562 | 1N1223B | 1104 | 1N1708 | 1104 | 1N2105 | 1104 | 1N3022A | 563 |
| 1N760 | 1102 | 1N861 | 1104 | 1N938 | 562 | 1N1224 | 1104 | 1N1709 | 1104 | 1N2106 | 1104 | 1N3022B | 563 |
| 1N764 | 562 | 1N862 | 1104 | 1N938A | 562 | 1N1225A | 1114 | 1N1710 | 1104 | 1N2107 | 1104 | 1N3024 | 564 |
| 1N764-3 | 562 | 1N863 | 1104 | 1N938B | 562 | 1N1226A | 1114 | 1N1711 | 1104 | 1N2108 | 1104 | 1N3024A | 564 |
| 1N765 | 563 | 1N864 | 1114 | 1N939 | 562 | 1N1251 | 1104 | 1N1712 | 1104 | 1N2115 | 1104 | 1N3024B | 564 |
| 1N766-1 | 563 | 1N865 | 1114 | 1N939A | 562 | 1N1252 | 1104 | 1N1713 | 563 | 1N2116 | 1104 | 1N3062 | 1122 |
| 1N767 | 564 | 1N866 | 1114 | 1N939B | 562 | 1N1253 | 1104 | 1N1730 | 1104 | 1N2117 | 1104 | 1N3063 | 1102 |
| 1N767-1 | 564 | 1N867 | 1114 | 1N941 | 563 | 1N1254 | 1104 | 1N1730A | 1114 | 1N2163 | 562 | 1N3064 | 1102 |
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| 1N771 | 1123 | 1N869 | 1104 | 1N941B | 563 | 1N1255A | 1104 | 1N1736 | 563 | 1N2164 | 562 | 1N3066 | 1102 |
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| 1N771B | 1123 | 1N871 | 1104 | 1N942A | 563 | 1N1257 | 1104 | 1N1763 | 1104 | 1N2165 | 562 | 1N3068 | 1102 |
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| 1N774 | 1123 | 1N875 | 1114 | 1N943B | 563 | 1N1261 | 1114 | 1N1766 | 561 | 1N2167 | 562 | 1N3071 | 1102 |
| 1N774A | 1123 | 1N876 | 1114 | 1N944 | 563 | 1N1313 | 562 | 1N1766A | 561 | 1N2167A | 562 | 1N3072 | 1104 |
| 1N775 | 1123 | 1N877 | 1114 | 1N944A | 563 | 1N1313A | 562 | 1N1770 | 562 | 1N2168 | 562 | 1N3073 | 1104 |
| 1N776 | 1123 | 1N878 | 1114 | 1N944B | 563 | 1N1316 | 564 | 1N1770A | 562 | 1N2168A | 562 | 1N3074 | 1104 |
| 1N777 | 1123 | 1N879 | 1104 | 1N945 | 563 | 1N1337-5 | 1104 | 1N1773 | 563 | 1N2169 | 562 | 1N3075 | 1104 |
| 1N778 | 1102 | 1N880 | 1104 | 1N945A | 563 | 1N1391 | 1123 | 1N1773A | 563 | 1N2169A | 562 | 1N3076 | 1104 |
| 1N779 | 1102 | 1N881 | 1104 | 1N945B | 563 | 1N1406 | 1104 | 1N1775 | 564 | 1N2170 | 562 | 1N3077 | 1104 |
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| 1N788 | 1102 | 1N882 | 1104 | 1N946A | 563 | 1N1408 | 1114 | 1N1779 | 561 | 1N2171 | ·562 | 1N3079 | 1104 |
| 1N789 | 1102 | 1N883 | 1104 | 1N946B | 563 | 1N1415 | 1104 | 1N1839 | 1102 | 1N2171A | 562 | 1N3080 | 1104 |
| 1N789M | 1102 | 1N884 | 1104 | 1N947 | 1104 | 1N1426 | 563 | 1N1840 | 1102 | 1N2181 | 1104 | 1N3081 | 1104 |
| 1N790 | 1102 | 1N885 | 1104 | 1N948 | 1102 | 1N1427 | 564 | 1N1841 | 1102 | 1N2217 | 1104 | 1N3082 | 1104 |
| 1N790M | 1102 | 1N886 | 1114 | 1N949 | 1123 | 1N1439 | 1104 | 1N1842 | 1102(2) | 1N2218 | 1104 | 1N3083 | 1104 |
| 1N791 | 1102 | 1N887 | 1114 | 1N960 | 562 | 1N1440 | 1104 | 1N1843 | 1102 | 1N2219 | 1104 | 1N3084 | 1104 |
| 1N791M | 1102 | 1N888 | 1114 | 1N960A | 562 | 1N1441 | 1104 | 1N1844 | 1102 | 1N2220 | 1104 | 1N3094 | 1104 |
| 1N792 | 1102 | 1N889 | 1114 | 1N960B | 562 | 1N1442 | 1104 | 1N1845 | 1102 | 1N2221 | 1104 | 1N3106 | 1104 |
| 1N792M | 1102 | 1N890 | 1102 | 1N963 | 563 | 1N1443 | 1114 | 1N1846 | 1102 | 1N2267 | 1104 | 1N3108 | 562 |
| 1N793 | 1102 | 1N891 | 1102 | 1N963A | 563 | 1N1443A | 1114 | 1N1847 | 1102 | 1N2268 | 1104 | 1N3110 | 1123 |
| 1N793M | 1102 | 1N892 | 1102 | 1N963B | 563 | 1N1448 | 1102 | 1N1877 | 563 | 1N2269 | 1104 | 1N3121 | 1123 |
| 1N794 | 1102 | 1N897 | 1102 | 1N965 | 564 | 1N1485 | 561 | 1N1877A | 563 | 1N2270 | 1104 | 1N3122 | 1123 |
| 1N795 | 1102 | 1N898 | 1102 | 1N965A | 564 | 1N1486 | 1104 | 1N1878 | 564 | 1N2271 | 1104 | 1N3123 | 1102 |
| 1N796 | 1102 | 1N899 | 1102 | 1N965B | 564 | 1N1487 | 1104 | 1N1878A | 564 | 1N2289 | 1104 | 1N3124 | 1102 |
| 1N797 | 1102 | 1N900 | 1102 | 1N966 | 564 | 1N1488 | 1104 | 1N1907 | 1104 | 1N2289A | 1104 | 1N3125 | 1123 |
| 1N798 | 1102 | 1N901 | 1102 | 1N993 | 1102 | 1N1489 | 1104 | 1N1908 | 1104 | 1N2290A | 1104 | 1N3146 | 1123 |
| 1N799 | 1102 | 1N902 | 1102 | 1N994 | 1123 | 1N1490 | 1104 | 1N1909 | 1104 | 1N2323 | 1104 | 1N3147 | 1102 |
| 1N800 | 1102 | 1N903 | 1102 | 1N995 | 1102 | 1N1491 | 1104 | 1N1910 | 1104 | 1N2326 | 1123 | 1N3148 | 562 |
| 1N801 | 1102 | 1N903/A | 1102 | 1N996 | 1123 | 1N1492 | 1104 | 1N1911 | 1104 | 1N2373 | 1104 | 1N3160 | 1104 |
| 1N802 | 1102 | 1N903A | 1102 | 1N997 | 1102 | 1N1513 | 563 | 1N1912 | 1104 | 1N2395 | 1104 | 1N3183 | 1104 |
| 1N803 | 1102 | 1N903AM | 1102 | 1N998 | 1104 | 1N1513A | 563 | 1N1913 | 1104 | 1N2396 | 1104 | 1N3184 | 1104 |
| 1N804 | 1102 | 1N903M | 1102 | 1N999 | 1102 | 1N1514 | 564 | 1N1933 | 563 | 1N2404 | 1104 | 1N3189 | 1104 |
| 1N805 | 1123 | 1N904 | 1102 | 1N1008 | 1104 | 1N1514A | 564 | 1N1934 | 564 | 1N2405 | 1104 | 1N3190 | 1104 |
| 1N806 | 1102 | 1N904/A | 1102 | 1N1028 | 1104 | 1N1524 | 563 | 1N1934A | 564 | 1N2413 | 1104 | 1N3191 | 1104 |
| 1N807 | 1102 | 1N904A | 1102 | 1N1029 | 1104 | 1N1524A | 563 | 1N1934B | 564 | 1N2414 | 1104 | 1N3193 | 1104 |
| 1N808 | 1102 | 1N904AM | 1102 | 1N1030 | 1104 | 1N1525 | 564 | 1N1960 | 563 | 1N2422 | 1104 | 1N3194 | 1104 |
| 1N809 | 1102 | 1N904M | 1102 | 1N1031 | 1104 | 1N1525A | 564 | 1N1960A | 563 | 1N2423 | 1104 | 1N3195 | 1104 |
| 1N810 | 1102 | 1N905 | 1102 | 1N1032 | 1104 | 1N1530 | 562 | 1N1960B | 563 | 1N2473 | 1102 | 1N3196 | 1114 |
| 1N811 | 1102 | 1N905/A | 1102 | 1N1033 | 1104 | 1N1530A | 562 | 1N1987 | 563 | 1N2482 | 1104 | 1N3197 | 1102 |
| 1N811M | 1102 | 1N905A | 1102 | 1N1046 | 1104 | 1N1543 | 1104 | 1N1988 | 564 | 1N2483 | 1104 | 1N3203 | 1104 |
| 1N812 | 1102 | 1N905AM | 1102 | 1N1047 | 1104 | 1N1544 | 1104 | 1N1988A | 564 | 1N2484 | 1104 | 1N3204 | 1123 |
| 1N812M | 1102 | 1N905M | 1102 | 1N1048 | 1104 | 1N1553 | 1104 | 1N1988B | 564 | 1N2485 | 1104 | 1N3206 | 1102 |
| 1N813 | 1102 | 1N906 | 1102 | 1N1049 | 1104 | 1N1554 | 1104 | 1N2013 | 1104 | 1N2486 | 1104 | 1N3207 | 1104 |
| 1N813M | 1102 | 1N906/A | 1102 | 1N1050 | 1104 | 1N1555 | 1104 | 1N2014 | 1104 | 1N2487 | 1104 | 1N3221 | 1114 |
| 1N814 | 1102 | 1N906A | 1102 |  |  | 1N1556 | 1104 | 1N2015 | 1104 | 1N2488 | 1104 | 1N3223 | 1102 |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1N3227 | 1104 | 1N3666 | 1102 | 1N4311 | 1102 | 1N4828 | 1102 | 1N5713 | 1102 | 1S75 | 1123 | 1S207 | 1104 |
| 1N3228 | 1104 | 1N3668 | 1102 | 1N4315 | 1102 | 1N4829 | 1102 | 1N5719 | 1102 | 1S76 | 1123 | 1S208 | 1104 |
| 1N3229 | 1104 | 1N3669 | 1104 | 1N4318 | 1102 | 1N4830 | 1102 | 1N5731 | 561 | 1S77 | 1123 | 1S208/2SJ2A | 1104 |
| 1N3230 | 1104 | 1N3678 | 562 | 1N4322 | 1102 | 1N4831 | 562 | 1N5735 | 562 | 1S78 | 1123 | 1S209 | 1104 |
| 1N3237 | 1104 | 1N3678A | 562 | 1N4326 | 562 | 1N4831A | 562 | 1N5738 | 563 | 1S79 | 1123 | 1S209/2SJ4A | 1104 |
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| 1N3239 | 1104 | 1N3681A | 563 | 1N4326B | 562 | 1N4834A | 563 | 1N5767 | 1102 | 1S81 | 1104 | 1S210/2SJ6A | 1114 |
| 1N3240 | 1104 | 1N3681B | 563 | 1N4329 | 563 | 1N4836 | 564 | 1N5858A | 563 | 1S82 | 1123 | 1S211 | 1114 |
| 1N3241 | 1104 | 1N3683 | 564 | 1N4329A | 563 | 1N4836A | 564 | 1N5858B | 563 | 1S83 | 1104 | 1S211/2SJ8A | 1114 |
| 1N3246 | 1104 | 1N3683A | 564 | 1N4329B | 563 | 1N4861 | 1102 | 1N33974 | 562 | 1S84 | 1102 | 1S212 | 562 |
| 1N3247 | 1104 | 1N3683B | 564 | 1N4331 | 564 | 1N4862 | 1102 | 1N58080A | 2510 | 1S85V | 1104 | 1S213 | 562 |
| 1N3248 | 1104 | 1N3722 | 1102 | 1N4331A | 564 | 1N4863 | 1102 | 1N70980 | 1102 | 1S88 | 1123 | 1S214 | 562 |
| 1N3249 | 1104 | 1N3748 | 1104 | 1N4331B | 564 | 1N4864 | 1102 | 1NA4 | 1123 | 1S89 | 1102 | 1S224 | 562 |
| 1N3250 | 1104 | 1N3749 | 1104 | 1N4361 | 1114 | 1N4896 | 563 | 1NA4G | 1123 | 1S90 | 1104 | 1S227 | 563 |
| 1N3253 | 1104 | 1N3753 | 1123 | 1N4363 | 1102 | 1N4896A | 563 | 1NC61684 | 1104 | 1S91 | 1104 | 1S230 | 564 |
| 1N3254 | 1104 | 1N3754 | 1123 | 1N4364 | 1104 | 1N4938 | 1102 | 1NJ27 | 1114 | 1S92 | 1104 | 1S268 | 1104 |
| 1N3255 | 1104 | 1N3755 | 1104 | 1N4365 | 1104 | 1N4949 | 1102 | 1NJ33233 | 1123 | 1S93 | 1104 | 1S268AA | 1104 |
| 1N3257 | 1102 | 1N3756 | 1104 | 1N4366 | 1104 | 1N4950 | 1102 | 1NJ60284 | 1123 | 1S93/SGJ | 1104 | 1S268T | 1104 |
| 1N3258 | 1102 | 1N3757 | 1104 | 1N4367 | 1104 | 1N4951 | 1102(2) | 1NJ61224 | 1123 | 1S94 | 1104 | 1S301.5 | 564 |
| 1N3277 | 1104 | 1N3758 | 1104 | 1N4368 | 1104 | 1N4952 | 1102(2) | 1NJ61433 | 1102 | 1S95 | 1104 | 1S306 | 1102 |
| 1N3278 | 1104 | 1N3759 | 1104 | 1N4369 | 1104 | 1N5004 | 1104 | 1NJ61675 | 1123 | 1S96 | 1114 | 1S307 | 1102 |
| 1N3279 | 1104 | 1N3773 | 1123 | 1N4375 | 1102 | 1N5005 | 1104 | 1NJ61676 | 1104 | 1S97 | 1114 | 1S309 | 1104 |
| 1N3280 | 1114 | 1N3828 | 561 | 1N4376 | 1102 | 1N5006 | 1104 | 1NJ61677 | 1102 | 1S98 | 1114 | 1S310 | 1104 |
| 1N3281 | 1114 | 1N3828A | 561 | 1N4382 | 1102 | 1N5007 | 1104 | 1NJ61725 | 1102 | 1S99 | 1114 | 1S311 | 1104 |
| 1N3282 | 1114 | 1N3855A | 562 | 1N4383 | 1104 | 1N5054 | 1114 | 1NJ61726 | 1104 | 1S99A | 1102 | 1S312 | 1104 |
| 1N3287 | 1123 | 1N3864 | 1102 | 1N4384 | 1104 | 1N5054A | 1114 | 1NJ70973 | 1123 | 1S100 | 1104 | 1S313 | 1104 |
| 1N3287N | 1123 | 1N3866 | 1104 | 1N4385 | 1104 | 1N5055 | 1104 | 1NJ70980 | 1102 | 1S101 | 1104 | 1S314 | 1104 |
| 1N3287W | 1123 | 1N3867 | 1104 | 1N4389 | 1102(2) | 1N5056 | 1104 | 1NJ71126 | 1104 | 1S102 | 1104 | 1S315 | 1104 |
| 1N3298 | 1104 | 1N3868 | 1104 | 1N4392 | 1102 | 1N5057 | 1104 | 1NJ71185 | 1123 | 1S103 | 1104 | 1S318 | 1123 |
| 1N3403 | 563 | 1N3872 | 1102 | 1N4395 | 1102 | 1N5058 | 1104 | 1NJ71186 | 1104 | 1S104 | 1104 | 1S322 | 1102 |
| 1N3404 | 564 | 1N3873 | 1102 | 1N4395A | 1102 | 1N5059 | 1104 | 1NJ71224 | 1102 | 1S105 | 1104 | 1S-331 | 561 |
| 1N3411 | 561 | 1N3895 | 1104 | 1N4403 | 562 | 1N5060 | 1104 | 1P541 | 1123 | 1S106 | 1104 | 1S331 | 561 |
| 1N3416 | 563 | 1N3938 | 1104 | 1N4403A | 562 | 1N5061 | 1104 | 1P542 | 1123 | 1S106A | 1104 | 1S331A | 561 |
| 1N3417 | 564 | 1N3939 | 1104 | 1N4403B | 562 | 1N5062 | 1104 | 1R0 | 1102 | 1S107 | 1114 | 1S331AZ | 561 |
| 1N3435 | 563 | 1N3940 | 1104 | 1N4406 | 563 | 1N5062(SEARS) | 1102 | 1R01 | 1104 | 1S108 | 1114 | 1S334 | 562 |
| 1N3436 | 564 | 1N3952 | 1104 | 1N4406A | 563 | 1N5179 | 1102(2) | 1R0E | 1102 | 1S109 | 1114 | 1S334K | 562 |
| 1N3443 | 561 | 1N3953 | 1102 | 1N4406B | 563 | 1N5194 | 1102 | 1R0F | 1104 | 1S110 | 1104 | 1S334M | 562 |
| 1N3447 | 563 | 1N3954 | 1102 | 1N4408 | 564 | 1N5195 | 1102 | 1R0H | 1104 | 1S110A | 1104 | 1S334N | 562 |
| 1N3448 | 564 | 1N3956 | 1102 | 1N4408A | 564 | 1N5196 | 1102 | 1R1D | 1104 | 1S111 | 1104 | 1S337 | 563 |
| 1N3465 | 1123 | 1N3991 | 1123 | 1N4408B | 564 | 1N5198 | 1104 | 1R1K | 1104 | 1S112 | 1104 | 1S337-Y | 563 |
| 1N3466 | 1123 | 1N4001 | 1101 | 1N4444 | 1102 | 1N5208 | 1102 | 1R2 | 1102 | 1S113 | 1104 | 1S337A | 563 |
| 1N3467 | 1123 | 1N-4002 | 1102 | 1N4446 | 1122 | 1N5209 | 1102 | 1R2A | 1104 | 1S113A | 1104 | 1S337E | 563 |
| 1N3468 | 1123 | 1N4002 | 1102 | 1N4447 | 1122 | 1N5210 | 1102 | 1R2D | 1104 | 1S114 | 1104 | 1S337Y | 563 |
| 1N3469 | 1123 | 1N4003 | 1102 | 1N4448 | 1122 | 1N5211 | 1102 | 1R2E | 1104 | 1S115 | 1104 | 1S347 | 561 |
| 1N3470 | 1123 | 1N4004 | 1103 | 1N4449 | 1122 | 1N5212 | 1104 | 1R3A | 1102 | 1S116 | 1104 | 1S354 | 1123 |
| 1N3471 | 1102 | 1N4005 | 1104 | 1N4450 | 1102 | 1N5213 | 1104 | 1R3D | 1104 | 1S117 | 1114 | 1S355 | 1123 |
| 1N3483 | 1123 | 1N4006 | 1114 | 1N4451 | 1102 | 1N5214 | 1114 | 1R3G | 1104 | 1S119 | 1104 | 1S357 | 1123 |
| 1N3484 | 1123 | 1N4007 | 1114 | 1N4453 | 1102 | 1N5215 | 1104 | 1R3J | 1104 | 1S120 | 1104 | 1S358 | 1104 |
| 1N3493 | 1104 | 1N4009 | 1102 | 1N4454 | 1122 | 1N5216 | 1104 | 1R4 | 1102 | 1S121 | 1104 | 1S358(S) | 1104 |
| 1N3496 | 561 | 1N4010 | 561 | 1N4455 | 1102 | 1N5217 | 1104 | 1R5A | 1104 | 1S121(RECT) | 1104 | 1S358S | 1104 |
| 1N3497 | 561 | 1N4011 | 1114 | 1N4499 | 561 | 1N5218 | 1114 | 1R5B | 1104 | 1S122 | 1104 | 1S390 | 1104 |
| 1N3498 | 561 | 1N4014 | 562 | 1N4502 | 1123 | 1N5219 | 1102 | 1R5G | 1104 | 1S123 | 1104 | 1S395 | 1104 |
| 1N3499 | 561 | 1N4043 | 1102 | 1N4523 | 1123 | 1N5220 | 1102 | 1R5GZ61 | 1114 | 1S124 | 1104 | 1S396 | 1104 |
| 1N3500 | 561 | 1N4048 | 1102 | 1N4531 | 1102 | 1N5234 | 561 | 1R5H | 1104 | 1S125 | 1104 | 1S397 | 1114 |
| 1N3513 | 561 | 1N4087 | 1102 | 1N4532 | 1102 | 1N5234A | 561 | 1R9 | 1104 | 1S126 | 1104 | 1S398 | 1114 |
| 1N3517 | 562 | 1N4088 | 1123 | 1N4533 | 1102 | 1N5234B | 561 | 1R9H | 1104 | 1S127 | 1104 | 1S399 | 1104 |
| 1N3520 | 563 | 1N4089 | 1104 | 1N4534 | 1102 | 1N5238A | 562 | 1R9J | 1104 | 1S130 | 1102 | 1S400 | 1104 |
| 1N3522 | 564 | 1N4092 | 1102(2) | 1N4536 | 1102 | 1N5239 | 562 | 1R9L | 1104 | 1S130(ZENER) | 562 | 1S401 | 1104 |
| 1N3537 | 563 | 1N4093 | 1102(2) | 1N4547 | 1102 | 1N5239A | 562 | 1R9U | 1104 | 1S131 | 1102 | 1S402 | 1114 |
| 1N3544 | 1104 | 1N4102 | 562 | 1N4548 | 1102 | 1N5239B | 562 | 1R9.1A | 562 | 1S132 | 1102 | 1S426FM | 1123 |
| 1N3545 | 1104 | 1N4103 | 562 | 1N4586 | 1104 | 1N5242 | 563 | 1R9.1B | 562 | 1S136 | 561 | 1S426G | 1123 |
| 1N3546 | 1104 | 1N4103A | 1123 | 1N4606 | 1102 | 1N5242A | 563 | 1R10D3K | 1102 | 1S136(RECT) | 1104 | 1S426GFM | 1123 |
| 1N3547 | 1104 | 1N4106 | 563 | 1N4607 | 1102 | 1N5242B | 563 | 1R12 | 563 | 1S136(ZENER) | 561 | 1S428 | 1123 |
| 1N3548 | 1104 | 1N4106A | 563 | 1N4608 | 1102 | 1N5245 | 564 | 1R12A | 563 | 1S137 | 564 | 1S430 | 1104 |
| 1N3549 | 1104 | 1N4109 | 564 | 1N4610 | 1102 | 1N5245A | 564 | 1R12B | 563 | 1S138 | 1114 | 1S431 | 1104 |
| 1N3550 | 1102 | 1N4139 | 1104 | 1N4627 | 561 | 1N5245B | 564 | 1R15 | 564 | 1S141 | 563 | 1S432 | 1104 |
| 1N3553 | 561 | 1N4141 | 1104 | 1N4631 | 562 | 1N5282 | 1102 | 1R15A | 564 | 1S146 | 1104 | 1S441 | 1123 |
| 1N3564 | 1123 | 1N4147 | 1102 | 1N4634 | 563 | 1N5315 | 1102 | 1R15B | 564 | 1S147 | 1104 | 1S442 | 1123 |
| 1N3575 | 1102 | 1N4148 | 1122 | 1N4636 | 564 | 1N5316 | 1102 | 1R90 | 1104 | 1S148 | 1104 | 1S444 | 1102 |
| 1N3576 | 1102 | 1N4149 | 1122 | 1N4656 | 561 | 1N5317 | 1102 | 1R96 | 1114 | 1S149 | 1104 | 1S446 | 1123 |
| 1N3577 | 1102 | 1N4150 | 1102 | 1N4660 | 562 | 1N5318 | 1102 | 1S005 | 1104 | 1S150 | 1104 | 1S-446D | 1123 |
| 1N3583 | 563 | 1N4151 | 1102 | 1N4663 | 563 | 1N5319 | 1102 | 1S031 | 1104 | 1S155 | 1102 | 1S446D | 1123 |
| 1N3583A | 563 | 1N4152 | 1102 | 1N4665 | 564 | 1N5320 | 1102 | 1S032 | 1104 | 1S155-1 | 1102 | 1S447 | 1123 |
| 1N3583B | 563 | 1N4153 | 1122 | 1N4691 | 561 | 1N5392 | 1104 | 1S1-0336-00-A | 2041 | 1S-180 | 1102 | 1S447P | 1123 |
| 1N3592 | 1123 | 1N4154 | 1122 | 1N4695 | 562 | 1N5393 | 1104 | 1S1Z09 | 1104 | 1S180 | 1102 | 1S448 | 1123 |
| 1N3593 | 1102 | 1N4156 | 1102 | 1N4699 | 563 | 1N5394 | 1104 | 1S12 | 1102 | 1S180/5GB | 1104 | 1S449 | 1123 |
| 1N3594 | 1102 | 1N4157 | 1102 | 1N4702 | 564 | 1N5395 | 1104 | 1S13 | 1123 | 1S180B | 1102 | 1S451 | 1123 |
| 1N3595 | 1102 | 1N4161 | 562 | 1N4718 | 1104 | 1N5396 | 1104 | 1S15 | 1102 | 1S181 | 1102 | 1S452 | 1123 |
| 1N3596 | 1102 | 1N4161A | 562 | 1N4720 | 1104 | 1N5397 | 1104 | 1S17 | 1102 | 1S181FA | 1102 | 1S453 | 1123 |
| 1N3598 | 1102 | 1N4161B | 562 | 1N4726 | 1102 | 1N5400 | 1104 | 1S17D1 | 1123 | 1S182 | 1102 | 1S454 | 1123 |
| 1N3599 | 1102 | 1N4164 | 563 | 1N4727 | 1102 | 1N5401 | 1104 | 1S18 | 1102 | 1S183 | 1104 | 1S455 | 1123 |
| 1N3600 | 1122 | 1N4164A | 563 | 1N4730 | 1114 | 1N5412 | 1104 | 1S20 | 1123 | 1S185 | 1123 | 1S456 | 1104 |
| 1N3601 | 1102 | 1N4164B | 563 | 1N4730A | 1114 | 1N5413 | 1102 | 1S32 | 1123 | 1S185OR | 1104 | 1S457 | 1104 |
| 1N3602 | 1102 | 1N4166 | 564 | 1N4735 | 561 | 1N5414 | 1102 | 1S33 | 1123 | 1S186 | 1123 | 1S458 | 1104 |
| 1N3603 | 1102 | 1N4166A | 564 | 1N4735A | 561 | 1N5426 | 1102 | 1S34 | 1123 | 1S186(FM) | 1123 | 1S459 | 1104 |
| 1N3604 | 1102 | 1N4166B | 564 | 1N4739 | 562 | 1N5525 | 561 | 1S34A | 1123 | 1S187 | 1123 | 1S466 | 1123 |
| 1N3605 | 1102 | 1N4198 | 1123 | 1N4739A | 562 | 1N5525A | 561 | 1S34S | 1123 | 1S188 | 1123 | 1S467R | 1123 |
| 1N3606 | 1102 | 1N4242 | 1102 | 1N4742 | 563 | 1N5529 | 562 | 1S35 | 1123 | 1S188A | 1123 | 1S472 | 562 |
| 1N3607 | 1102 | 1N4243 | 1102 | 1N4742A | 563 | 1N5529A | 562 | 1S37 | 561 | 1S-188AM | 1123 | 1S480 | 561 |
| 1N3608 | 1102 | 1N4245 | 1104 | 1N4743 | 563 | 1N5532 | 563 | 1S38 | 1102 | 1S188AM | 1123 | 1S482 | 562 |
| 1N3609 | 1102 | 1N4246 | 1104 | 1N4744 | 564 | 1N5532A | 563 | 1S40 | 1104 | 1S188AR | 1123 | 1S543 | 1101 |
| 1N3612 | 1104 | 1N4247 | 1104 | 1N4744A | 564 | 1N5535 | 564 | 1S41 | 1104 | 1S188FM | 1123 | 1S555 | 1102 |
| 1N3613 | 1104 | 1N4250 | 1114 | 1N4765 | 562 | 1N5535A | 564 | 1S42 | 1104 | 1S188FM-1 | 1123 | 1S557 | 1114 |
| 1N3614 | 1104 | 1N4251 | 1114 | 1N4765A | 562 | 1N5562 | 562 | 1S43 | 1104 | 1S188FM1 | 1123 | 1S558 | 1104 |
| 1N3615 | 1104 | 1N4297 | 562 | 1N4770 | 562 | 1N5562A | 562 | 1S44 | 1104 | 1S188FM2 | 1123 | 1S559 | 1104 |
| 1N3625 | 1102 | 1N4297A | 562 | 1N4770A | 562 | 1N5565 | 563 | 1S45 | 1104 | 1S188G | 1123 | 1S560 | 1102 |
| 1N3639 | 1104 | 1N4298 | 562 | 1N4816 | 1104 | 1N5565A | 563 | 1S46 | 1104 | 1S188MPX | 1123 | 1S588 | 1104 |
| 1N3640 | 1104 | 1N4298A | 562 | 1N4817 | 1104 | 1N5567 | 564 | 1S54 | 1104 | 1S188PM | 1123 | 1S589 | 1123 |
| 1N3641 | 1104 | 1N4302 | 562 | 1N4818 | 1114 | 1N5567A | 564 | 1S55 | 562 | 1S188S | 1123 | 1S597 | 564 |
| 1N3642 | 1104 | 1N4302A | 562 | 1N4819 | 1114 | 1N5605 | 1102 | 1S58 | 1104 | 1S189 | 1123 | 1S642 | 1102 |
| 1N3653 | 1102 | 1N4305 | 1122 | 1N4820 | 1104 | 1N5606 | 1102 | 1S60P | 1123 | 1S194 | 562 | 1S685 | 1104 |
| 1N3654 | 1102 | 1N4306 | 1102 | 1N4821 | 1104 | 1N5607 | 1102 | 1S71 | 1104 | 1S197 | 563 | 1S686 | 1114 |
| 1N3656 | 1104 | 1N4307 | 1102 | 1N4822 | 1104 | 1N5610 | 1102 | 1S72 | 1123 | 1S204 | 1104 | 1S687 | 1114 |
| 1N3657 | 1104 | 1N4308 | 1102 | 1N4827 | 1102 | 1N5711 | 1102 | 1S73 | 1123 | 1S205 | 1104 | 1S693 | 1102 |
| 1N3658 | 1104 | 1N4309 | 1102 | | | 1N5712 | 1102 | 1S74 | 1123 | 1S206 | 1104 | | |

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| 1S696 | 563 | 1S1544 | 1102 | 1S2091BL | 1102 | 1S-M2511-8010S-035B | | 1Z9.1T10 | 562 | 2G339 | 2001 | 2N140# | 2007 |
| 1S697 | 564 | 1S1545 | 1102 | 1S2091W | 1102 | | 1122 | 1Z9.1T20 | 562 | 2G339A | 2001 | 2N145 | 2001 |
| 1S750 | 1101 | 1S1553 | 1102 | 1S2092 | 1102 | 1SO30 | 1104 | 1Z12 | 563 | 2G383 | 2007 | 2N145# | 2001 |
| 1S750(2) | 1101 | 1S1554 | 1102 | 1S2097 | 1102 | 1SO31 | 1104 | 1Z12A | 563 | 2G394 | 2007 | 2N146 | 2001 |
| 1S750GR | 1101 | 1S1555 | 1102 | 1S2098 | 1102 | 1SO32 | 1104 | 1Z12B | 563 | 2G396 | 2007 | 2N146# | 2001 |
| 1S757A | 562 | 1S1555-1 | 1102 | 1S2112A | 561 | 1SO34 | 1104 | 1Z12C | 563 | 2G397 | 2007 | 2N147 | 2001 |
| 1S758 | 562 | 1S1555-S | 1102 | 1S2116A | 562 | 1SO36 | 1104 | 1Z12T5 | 563 | 2G524 | 2007 | 2N147# | 2001 |
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| 1S844 | 1104 | 1S-1555V | 1102 | 1S2120A | 563 | 1SO58 | 1114 | 1Z15 | 564 | 2G603 | 2007 | 2N148C/D | 2009 |
| 1S846 | 1104 | 1S1555V | 1102 | 1S2121A | 564 | 1SR1FM4 | 1104 | 1Z15A | 564 | 2G604 | 2007 | 2N148D | 2009 |
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| 1S849 | 1104 | 1S-1579 | 1102(2) | 1S-2144Z | 1102 | 1T6.2 | 561 | 1Z15C | 564 | 2G805 | 1104 | 2N150 | 2001 |
| 1S849,R | 1104 | 1S1580 | 1102 | 1S2144Z | 1102 | 1T6.2B | 561 | 1Z15D | 564 | 2G1024 | 2007 | 2N150A | 2001 |
| 1S849R | 1104(2) | 1S1585 | 1102 | 1S2150 | 564 | 1T9.1 | 562 | 1Z15D5 | 564 | 2G1025 | 2007 | 2N160 | 2013 |
| 1S850 | 1114 | 1S1586 | 1102 | 1S2150A | 564 | 1T9.1A | 562 | 1Z15D10 | 564 | 2G1026 | 2007 | 2N160A | 2016 |
| 1S885 | 1104 | 1S1587 | 1102 | 1S2186 | 1102 | 1T9.1B | 562 | 1Z15T5 | 564 | 2G3055 | 2041 | 2N161 | 2013 |
| 1S920 | 1102 | 1S1588 | 1122 | 1S2186GR | 1102 | 1T12 | 563 | 1Z15T10 | 564 | 2H1254 | 2022 | 2N161A | 2016 |
| 1S921 | 1102 | 1S1589 | 1102 | 1S2198 | 1101 | 1T12A | 563 | 1Z15T20 | 564 | 2H1256 | 2022 | 2N162 | 2013 |
| 1S922(DIODE) | 1102 | 1S1621 | 1102 | 1S2198HC | 1101 | 1T12B | 563 | 1Z91.1D10 | 562 | 2H1257 | 2022 | 2N162A | 2016 |
| 1S923 | 1102 | 1S1621-O | 1102 | 1S2230 | 1104 | 1T13 | 1101 | 1Z91.D10 | 562 | 2H1258 | 2022 | 2N163 | 2013 |
| 1S926G | 1123 | 1S1621-R | 1102 | 1S2276 | 1102 | 1T13A | 1101 | 1ZB12 | 563 | 2H1259 | 2022 | 2N163A | 2016 |
| 1S940 | 1104 | 1S1621-Y | 1102 | 1S2310 | 1104 | 1T13B | 1101 | 1ZB12B | 563 | 2HR3J | 1114 | 2N164 | 2001 |
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| 1S942 | 1102 | 1S1624 | 1104 | 1S2313 | 1104 | 1T22 | 1123 | 1ZC6.2 | 561 | 2JMW961 | 2009 | 2N166 | 2001 |
| 1S943 | 1104 | 1S1625 | 1104 | 1S2314 | 1114 | 1T22A | 1123 | 1ZC9.1 | 562 | 2K02 | 1114 | 2N167 | 2001 |
| 1S951 | 1102 | 1S1650 | 1102 | 1S2315 | 1114 | 1T22AJ | 1123 | 1ZC9.1T5 | 562 | 2M78 | 2001 | 2N167A | 2001 |
| 1S952 | 1102 | 1S1651 | 1102 | 1S2351 | 1104 | 1T22B | 1123 | 1ZC9.1T10 | 562 | 2M214 | 562 | 2N168 | 2001 |
| 1S953 | 1102 | 1S1655 | 1104 | 1S2352 | 1104 | 1T22G | 1123 | 1ZC12 | 563 | 2M6219 | 2011 | 2N168A | 2001 |
| 1S954 | 1102 | 1S1658 | 1123 | 1S2353 | 1114 | 1T23 | 1123 | 1ZC12T5 | 563 | 2MN6374 | 2011 | 2N168A# | 2001 |
| 1S955 | 1102 | 1S1664 | 1104 | 1S2354 | 1114 | 1T23A | 1123 | 1ZC12T20 | 563 | 2MW665 | 1123 | 2N169 | 2001 |
| 1S963 | 1104 | 1S1665 | 1104 | 1S2356 | 1104 | 1T23B | 1123 | 1ZC15 | 564 | 2MW742 | 561 | 2N169A | 2001 |
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| 1S990 | 564 | 1S1668 | 1104 | 1S2361 | 1104 | 1T23J | 1123 | 1ZC15T10 | 564 | 2N28 | 2001 | 2N170 | 2001 |
| 1S990(ZENER) | 564 | 1S1668F | 1104 | 1S2362 | 1104 | 1T23M | 1123 | 1ZF9.1T5 | 562 | 2N29 | 2001 | 2N171 | 2001 |
| 1S990-AM | 1102 | 1S1690 | 1104 | 1S2363 | 1104 | 1T26 | 1123 | 1ZF9.1T10 | 562 | 2N30 | 2007 | 2N172 | 2001 |
| 1S990A | 1102 | 1S1691 | 1104 | 1S2364 | 1114 | 1T26-2 | 1123 | 1ZF9.1T20 | 562 | 2N31 | 2007 | 2N172# | 2001 |
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| 1S990S(DIODE) | 1102 | 1S1694 | 1104 | 1S2371 | 1104 | 1T213 | 1123 | 1ZF12T20 | 563 | 2N63 | 2007 | 2N182# | 2001 |
| 1S990S(ZENER) | 564 | 1S1695 | 1114 | 1S2372 | 1104 | 1T231 | 1123 | 1ZF15T5 | 564 | 2N64 | 2007 | 2N183 | 2001 |
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| 1S1000 | 1101 | 1S1698 | 1104 | 1S2374 | 1104 | 1T240 | 1123 | 1ZF15T20 | 564 | 2N65 | 2007 | 2N184 | 2001 |
| 1S1000A | 1101 | 1S1701 | 1102(2) | 1S2375 | 1104 | 1T240A | 1123 | 1ZM6.2 | 561 | 2N65# | 2007 | 2N185# | 2007 |
| 1S1001 | 1102 | 1S1715 | 561 | 1S2376 | 1104 | 1T243 | 1102 | 1ZM6.2T5 | 561 | 2N76 | 2007 | 2N191 | 2003 |
| 1S1007 | 1123 | 1S1717 | 562 | 1S2401 | 1104 | 1T243M | 562 | 1ZM6.2T10 | 561 | 2N77 | 2007 | 2N193 | 2001 |
| 1S1007S | 1123 | 1S1717L | 562 | 1S2402 | 1104 | 1T261 | 1123 | 1ZM6.2T20 | 561 | 2N78 | 2001 | 2N193# | 2001 |
| 1S1052 | 1102 | 1S1718 | 562 | 1S2403 | 1114 | 1T262 | 1123 | 1ZM9.1T5 | 562 | 2N78# | 2001 | 2N194 | 2001 |
| 1S1053 | 1102 | 1S1722 | 1101 | 1S2404 | 1104 | 1T378 | 1104 | 1ZM9.1T10 | 562 | 2N78A | 2001 | 2N194# | 2001 |
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| 1S1064 | 1104 | 1S1829 | 1114 | 1S2462 | 1104 | 1T504 | 1104 | 1ZM12T20 | 563 | 2N78A | 2001 | 2N211 | 2001 |
| 1S1065 | 1114 | 1S1848 | 1104 | 1S-2472 | 1102 | 1T505 | 1104 | 1ZM15T5 | 564 | 2N78A | 2001 | 2N211# | 2001 |
| 1S1066 | 1114 | 1S1849 | 1104 | 1S2472 | 1102 | 1T506 | 1104 | 1ZM15T10 | 564 | 2N82AG | 1101 | 2N212 | 2001 |
| 1S1072 | 1104 | 1S1849R | 1104(2) | 1S2473H | 1102 | 1T507 | 1114 | 1ZM15T20 | 564 | 2N83 | 2007 | 2N212A | 2001 |
| 1S1096 | 1104 | 1S1850 | 1104(2) | 1S2473HC | 1122 | 1T508 | 1114 | 1ZT12 | 563 | 2N94 | 2001 | 2N215# | 2007 |
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| 1S1207 | 1102 | 1S1851R | 1104 | 1S2473T | 1102 | 1T510 | 1114 | 1ZT15 | 564 | 2N94A | 2001 | 2N216# | 2007 |
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| 1S1218 | 1102 | 1S1928 | 1101 | 1S3016 | 564 | 1TA9.1A | 562 | 2B | 2007 | 2N105 | 2007 | 2N238 | 2003 |
| 1S1218GR | 1102 | 1S1941 | 1104 | 1S3016(RECT) | 1104 | 1TA12 | 563 | 2C | 2007 | 2N106# | 2007 | 2N243 | 2012 |
| 1S1219 | 1102 | 1S1942 | 1104 | 1S3016R | 1104 | 1TA12A | 563 | 2CD198S | 2041 | 2N111 | 2007 | 2N244 | 2030 |
| 1S1220 | 1102 | 1S1943 | 1104 | 1S3076 | 1102 | 1TA15 | 564 | 2CS900 | 2009 | 2N111A | 2007 | 2N245 | 2030 |
| 1S1221 | 1104 | 1S1950 | 1104 | 1S3195 | 1104 | 1TA15A | 564 | 2CY33 | 2034 | 2N112 | 2001 | 2N246 | 2030 |
| 1S1222 | 1104 | 1S1956 | 561 | 1S3585 | 1123 | 1TB06 | 1104 | 2CY34 | 2034 | 2N112A | 2007 | 2N249# | 2007 |
| 1S1223 | 1114 | 1S1959 | 562 | 1S4266FM | 1123 | 1TH61 | 1114 | 2CY38 | 2023 | 2N113 | 2007 | 2N252# | 2003 |
| 1S1224 | 1104 | 1S1962 | 563 | 1S5454 | 1123 | 1TS05 | 1114 | 2D002 | 2009 | 2N114 | 2007 | 2N253 | 2001 |
| 1S1225 | 1114 | 1S1964 | 564 | 1S7062 | 561 | 1U585F | 2009 | 2D002-41 | 2009 | 2N117 | 2011 | 2N253# | 2001 |
| 1S1225A | 1114 | 1S1992 | 1102 | 1S7062A | 561 | 1U585F/7825B | 2009 | 2D002-168 | 2009 | 2N117# | 2013 | 2N254 | 2001 |
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| 1S1231 | 1104 | 1S1994 | 1102 | 1S7091 | 1102 | 1V3074A21 | 1104 | 2O002-170 | 2009 | 2N118# | 2013 | 2N262 | 2007 |
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| 1S1233 | 1114 | 1S2062 | 561 | 1S7091B | 562 | 1VA10 | 1104 | 2D002-175 | 2009 | 2N119 | 2031 | 2N264 | 2013 |
| 1S1234 | 1114 | 1S2062A | 561 | 1S7120 | 563 | 1W1706 | 2035 | 2D-02 | 1104 | 2N119# | 2013 | 2N270# | 2007 |
| 1S1255A | 1114 | 1S2062B | 561 | 1S7120A | 563 | 1W8358 | 2009 | 2D010 | 2041 | 2N120 | 2013 | 2N271 | 2007 |
| 1S1302 | 1102 | 1S2067 | 562 | 1S7120B | 563 | 1W9723 | 2009 | 2D017 | 2009 | 2N120# | 2013 | 2N271A | 2007 |
| 1S1303 | 1102 | 1S2068 | 562 | 1S7150 | 564 | 1W9787 | 2009 | 2D026 | 2009 | 2N123 | 2007 | 2N273 | 2007 |
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| 1S1516 | 1102 | 1S2091A | 562 | | | 1Z9.1D15 | 562 | 2G320 | 2007 | | | | |
| 1S1532 | 1102 | 1S2091BK | 1102 | | | 1Z9.1T5 | 562 | | | | | | |

*# Type with same number, but with slightly different specifications (usually case style).*

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| 2N312 | 2001 | 2N471A | 2013 | 2N635 | 2001 | 2N809 | 2007 | 2N1091 | 2001 | 2N1318 | 2007 | 2N1783 | 2001 |
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# Type with same number, but with slightly different specifications (usually case style).

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| 2SA560A | 2032 | 2SB266 | 2005 | 2SC27 | 2009 | 2SC87 | 2009 | 2SC148J | 2013 | 2SC184 | 2016 | 2SC206GN | 2013 |
| 2SA561Y | 2032 | 2SB267 | 2005 | 2SC28 | 2016 | 2SC89 | 2001 | 2SC148K | 2013 | 2SC184(R) | 2031 | 2SC206H | 2013 |
| 2SA562 | 2023 | 2SB269 | 2005 | 2SC29 | 2016 | 2SC90 | 2001 | 2SC148L | 2013 | 2SC184A | 2013 | 2SC206J | 2013 |
| 2SA562-R | 2023 | 2SB270 | 2007 | 2SC30 | 2009 | 2SC91 | 2001 | 2SC148M | 2013 | 2SC184AP | 2013 | 2SC206K | 2013 |
| 2SA562-RED | 2023 | 2SB277 | 2005 | 2SC31 | 2030 | 2SC96 | 2009 | 2SC148OR | 2013 | 2SC184B | 2013 | 2SC206L | 2013 |
| 2SA564(P) | 2032 | 2SB288 | 2007 | 2SC32 | 2030 | 2SC100 | 2016 | 2SC148R | 2013 | 2SC184BK | 2013 | 2SC206M | 2013 |
| 2SA564A(P) | 2032 | 2SB290 | 2007 | 2SC33 | 2016 | 2SC100-OY | 2009 | 2SC148X | 2013 | 2SC184C | 2013 | 2SC206OR | 2013 |
| 2SA564A(R) | 2032 | 2SB291 | 2007 | 2SC34 | 2001 | 2SC103 | 2016 | 2SC148Y | 2013 | 2SC184D | 2013 | 2SC206R | 2013 |
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| 2SA565K | 2022 | 2SB292A | 2007 | 2SC37 | 2016 | 2SC104 | 2015 | 2SC150A | 2013 | 2SC184F | 2013 | 2SC206Y | 2013 |
| 2SA608 | 2034 | 2SB293 | 2007 | 2SC38 | 2038 | 2SC104A | 2016 | 2SC150C | 2013 | 2SC184G | 2013 | 2SC207 | 2011 |
| 2SA608(D) | 2009 | 2SB294 | 2007 | 2SC38A | 2009 | 2SC105 | 2016 | 2SC150D | 2013 | 2SC184GN | 2013 | 2SC208 | 2011 |
| 2SA608(F) | 2009 | 2SB299 | 2007 | 2SC38Y | 2009 | 2SC109 | 2030 | 2SC150E | 2013 | 2SC184H | 2038 | 2SC208A | 2009 |
| 2SA608D(F) | 2032 | 2SB302 | 2007 | 2SC39 | 2016 | 2SC110 | 2030 | 2SC150F | 2013 | 2SC184J | 2038 | 2SC209 | 2011 |
| 2SA609 | 2034 | 2SB303 | 2007 | 2SC39A | 2016 | 2SC111 | 2030 | 2SC150G | 2013 | 2SC184K | 2013 | 2SC210 | 2030 |
| 2SA616(1,2) | 2043 | 2SB314 | 2007 | 2SC40 | 2038 | 2SC114 | 2030 | 2SC150GN | 2013 | 2SC184L | 2038 | 2SC211 | 2030 |
| 2SA617K | 2022 | 2SB315 | 2007 | 2SC45 | 2009 | 2SC116 | 2030 | 2SC150H | 2013 | 2SC184M | 2013 | 2SC217 | 2030 |
| 2SA618K | 2022 | 2SB316 | 2007 | 2SC47 | 2030 | 2SC120 | 2016 | 2SC150J | 2013 | 2SC184OR | 2013 | 2SC218 | 2009 |
| 2SA628 | 2034 | 2SB321 | 2007 | 2SC48 | 2009 | 2SC121 | 2016 | 2SC150K | 2013 | 2SC184Q | 2013 | 2SC218A | 2009 |
| 2SA638E,F | 2032 | 2SB322 | 2007 | 2SC48C | 2009 | 2SC122 | 2016 | 2SC150L | 2013 | 2SC184R | 2038 | 2SC220 | 2030 |
| 2SA678C | 2032 | 2SB323 | 2007 | 2SC49Y | 2041 | 2SC122D | 2009 | 2SC150M | 2013 | 2SC184X | 2013 | 2SC221 | 2030 |
| 2SA684(R) | 2032 | 2SB328 | 2007 | 2SC50 | 2001 | 2SC124 | 2016 | 2SC150OR | 2013 | 2SC184Y | 2013 | 2SC227 | 2030 |
| 2SA720Q,R,S | 2032 | 2SB329 | 2007 | 2SC50A | 2001 | 2SC126 | 2012 | 2SC150R | 2013 | 2SC185 | 2016 | 2SC230 | 2009 |
| 2SA726Y | 2032 | 2SB335 | 2007 | 2SC51 | 2030 | 2SC127 | 2011 | 2SC150T | 2030 | 2SC185A | 2038 | 2SC232 | 2030 |
| 2SA733(P) | 2032 | 2SB336 | 2007 | 2SC52 | 2009 | 2SC128 | 2001 | 2SC150X | 2013 | 2SC185J | 2038 | 2SC237 | 2038 |
| 2SA741 | 2034 | 2SB345 | 2007 | 2SC53 | 2038 | 2SC129 | 2001 | 2SC150Y | 2013 | 2SC185M | 2038 | 2SC239 | 2009 |
| 2SA741H | 2034 | 2SB347 | 2007 | 2SC54 | 2016 | 2SC130L | 2020 | 2SC151 | 2030 | 2SC185Q | 2038 | 2SC240 | 2041 |
| 2SA778AK | 2021 | 2SB349 | 2005 | 2SC55 | 2016 | 2SC131 | 2033 | 2SC152 | 2030 | 2SC185R | 2038 | 2SC241 | 2041 |
| 2SA812 | 2023 | 2SB350 | 2005 | 2SC55A | 2013 | 2SC132 | 2033 | 2SC154(C) | 2008 | 2SC185V | 2038 | 2SC242 | 2041 |
| 2SA828A | 2009 | 2SB371 | 2007 | 2SC55B | 2013 | 2SC133 | 2033 | 2SC155 | 2015 | 2SC186 | 2015 | 2SC244 | 2041 |
| 2SA838 | 2034 | 2SB382BK | 2030 | 2SC55C | 2013 | 2SC134 | 2033 | 2SC156 | 2016 | 2SC187 | 2016 | 2SC250 | 2015 |
| 2SA-NJ-101 | 2032 | 2SB382BN | 2030 | 2SC55D | 2013 | 2SC134A | 2013 | 2SC157 | 2011 | 2SC188 | 2030 | 2SC251 | 2038 |
| 2SB12 | 2007 | 2SB384 | 2005 | 2SC55E | 2013 | 2SC134B | 2009 | 2SC158 | 2011 | 2SC189 | 2030 | 2SC251A | 2038 |
| 2SB13 | 2007 | 2SB385 | 2005 | 2SC55F | 2013 | 2SC134C | 2013 | 2SC159 | 2011 | 2SC191 | 2010 | 2SC252 | 2016 |
| 2SB14 | 2007 | 2SB386 | 2007 | 2SC55G | 2013 | 2SC134D | 2013 | 2SC159A | 2013 | 2SC192 | 2010 | 2SC253 | 2038 |
| 2SB22/ORN | 2004 | 2SB387 | 2007 | 2SC55GN | 2013 | 2SC134E | 2013 | 2SC159B | 2013 | 2SC193 | 2010 | 2SC263 | 2016 |
| 2SB22/YEL | 2005 | 2SB389 | 2007 | 2SC55H | 2013 | 2SC134F | 2013 | 2SC159C | 2013 | 2SC194 | 2009 | 2SC264 | 2016 |
| 2SB23 | 2007 | 2SB392 | 2007 | 2SC55J | 2013 | 2SC134G | 2013 | 2SC159D | 2013 | 2SC195 | 2013 | 2SC265 | 2016 |
| 2SB24 | 2007 | 2SB393 | 2007 | 2SC55K | 2013 | 2SC134GN | 2013 | 2SC159E | 2013 | 2SC195A | 2013 | 2SC266 | 2016 |
| 2SB33 | 2007 | 2SB394 | 2007 | 2SC55L | 2013 | 2SC134H | 2013 | 2SC159F | 2013 | 2SC195B | 2013 | 2SC267 | 2016 |
| 2SB39 | 2007 | 2SB395 | 2007 | 2SC55M | 2013 | 2SC134J | 2013 | 2SC159GN | 2013 | 2SC195C | 2013 | 2SC267A | 2009 |
| 2SB43 | 2007 | 2SB396 | 2007 | 2SC55OR | 2013 | 2SC134K | 2013 | 2SC159H | 2013 | 2SC195D | 2013 | 2SC268 | 2008 |
| 2SB44 | 2007 | 2SB400 | 2007 | 2SC55R | 2013 | 2SC134L | 13 | 2SC159J | 2013 | 2SC195E | 2013 | 2SC268A | 2008 |
| 2SB46 | 2007 | 2SB401 | 2007 | 2SC55X | 2013 | 2SC134M | 2013 | 2SC159K | 2013 | 2SC195F | 2013 | 2SC269 | 2016 |
| 2SB47 | 2007 | 2SB402 | 2007 | 2SC55Y | 2013 | 2SC134OR | 2013 | 2SC159L | 2013 | 2SC195G | 2013 | 2SC271 | 2038 |
| 2SB54 | 2007 | 2SB403 | 2007 | 2SC56 | 2016 | 2SC134R | 2013 | 2SC159M | 2013 | 2SC195GN | 2013 | 2SC280 | 2031 |
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| 2SB56 | 2007 | 2SB408 | 2007 | 2SC58AC | 2009 | 2SC134Y | 2013 | 2SC159R | 2013 | 2SC195J | 2013 | 2SC281 | 2009 |
| 2SB56G | 2007 | 2SB409 | 2005 | 2SC58B | 2012 | 2SC135 | 2033 | 2SC159X | 2013 | 2SC195K | 2013 | 2SC281A | 2009 |
| 2SB57 | 2007 | 2SB416 | 2007 | 2SC58D | 2012 | 2SC135A | 2013 | 2SC159Y | 2013 | 2SC195L | 2013 | 2SC281B | 2009 |
| 2SB58 | 2007 | 2SB417 | 2007 | 2SC58E | 2012 | 2SC135B | 2013 | 2SC160 | 2011 | 2SC195M | 2013 | 2SC281C | 2009 |
| 2SB60 | 2007 | 2SB422 | 2007 | 2SC58F | 2012 | 2SC135C | 2013 | 2SC160A | 2013 | 2SC195OR | 2013 | 2SC281C-EP | 2009 |
| 2SB61 | 2007 | 2SB423 | 2007 | 2SC58G | 2012 | 2SC135D | 2013 | 2SC160B | 2013 | 2SC195R | 2013 | 2SC281D | 2009 |
| 2SB66 | 2007 | 2SB429 | 2007 | 2SC58GN | 2012 | 2SC135E | 2013 | 2SC160C | 2013 | 2SC195X | 2013 | 2SC281EP | 2009 |
| 2SB70 | 2007 | 2SB436 | 2005 | 2SC58H | 2012 | 2SC135F | 2013 | 2SC160D | 2013 | 2SC195Y | 2013 | 2SC281H | 2016 |
| 2SB71 | 2007 | 2SB439 | 2007 | 2SC58J | 2012 | 2SC135G | 2013 | 2SC160E | 2013 | 2SC196 | 2013 | 2SC281HA | 2009 |
| 2SB73 | 2007 | 2SB440 | 2007 | 2SC58K | 2012 | 2SC135GN | 2013 | 2SC160F | 2013 | 2SC196A | 2013 | 2SC281HB | 2009 |
| 2SB74 | 2005 | 2SB443 | 2007 | 2SC58L | 2012 | 2SC135H | 2013 | 2SC160G | 2013 | 2SC196B | 2013 | 2SC281HC | 2009 |
| 2SB75 | 2007 | 2SB458B | 2009 | 2SC58M | 2012 | 2SC135J | 2013 | 2SC160GN | 2013 | 2SC196D | 2013 | 2SC282 | 2009 |
| 2SB75H | 2007 | 2SB458BC | 2031 | 2SC58OR | 2012 | 2SC135L | 2013 | 2SC160H | 2013 | 2SC196E | 2013 | 2SC282H | 2009 |
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| 2SB91 | 2007 | 2SB498 | 2005 | 2SC63 | 2016 | 2SC135Y | 2013 | 2SC160OR | 2013 | 2SC196J | 2013 | 2SC283H | 2016 |
| 2SB92 | 2007 | 2SB516 | 2005 | 2SC64A | 2009 | 2SC136 | 2009 | 2SC160R | 2013 | 2SC196K | 2013 | 2SC284 | 2009 |
| 2SB93 | 2007 | 2SB645E | 2009 | 2SC64B | 2009 | 2SC136D | 2011 | 2SC160X | 2013 | 2SC196L | 2013 | 2SC284H | 2009 |
| 2SB94 | 2007 | 2SB-C731 | 1104 | 2SC66EV | 2011 | 2SC137 | 2033 | 2SC160Y | 2013 | 2SC196M | 2013 | 2SC284HA | 2009 |
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| 2SB96 | 2007 | 2SC7 | 2041 | 2SC68 | 2016 | 2SC137B | 2013 | 2SC166 | 2016 | 2SC196R | 2013 | 2SC284HC | 2009 |
| 2SB97 | 2007 | 2SC9 | 2020 | 2SC70 | 2008 | 2SC137C | 2013 | 2SC167 | 2010 | 2SC196X | 2013 | 2SC285 | 2009 |
| 2SB98 | 2007 | 2SC11 | 2001 | 2SC70A | 2012 | 2SC137D | 2013 | 2SC168 | 2016 | 2SC196Y | 2013 | 2SC285A | 2009 |
| 2SB99 | 2007 | 2SC13 | 2001 | 2SC71 | 2001 | 2SC137E | 2013 | 2SC169 | 2016 | 2SC197 | 2011 | 2SC286 | 2011 |
| 2SB100 | 2007 | 2SC14 | 2001 | 2SC72 | 2001 | 2SC137F | 2013 | 2SC170 | 2016 | 2SC197A | 2013 | 2SC287 | 2011 |
| 2SB101 | 2007 | 2SC15 | 2009 | 2SC73 | 2001 | 2SC137G | 2013 | 2SC171 | 2016 | 2SC197B | 2013 | 2SC287A | 2038 |
| 2SB103 | 2007 | 2SC15-1 | 2009 | 2SC74 | 2038 | 2SC137GN | 2013 | 2SC172 | 2016 | 2SC197C | 2013 | 2SC288 | 2038 |
| 2SB104 | 2007 | 2SC15-2 | 2009 | 2SC74A | 2013 | 2SC137H | 2013 | 2SC172A | 2016 | 2SC197D | 2013 | 2SC288A | 2038 |
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| 2SB112 | 2007 | 2SC16A | 2016 | 2SC74D | 2013 | 2SC137L | 2013 | 2SC174A | 2016 | 2SC197G | 2013 | 2SC288B | 2011 |
| 2SB113 | 2007 | 2SC17 | 2015 | 2SC74E | 2013 | 2SC137M | 2013 | 2SC175 | 2001 | 2SC197GN | 2013 | 2SC289 | 2038 |
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| 2SB115 | 2007 | 2SC17B | 2013 | 2SC74G | 2013 | 2SC137R | 2013 | 2SC176 | 2001 | 2SC197J | 2013 | 2SC295 | 2016 |
| 2SB116 | 2007 | 2SC17C | 2013 | 2SC74GN | 2013 | 2SC137X | 2013 | 2SC177 | 2001 | 2SC197K | 2013 | 2SC296 | 2016 |
| 2SB117 | 2007 | 2SC17D | 2013 | 2SC74H | 2013 | 2SC137Y | 2013 | 2SC178 | 2001 | 2SC197L | 2013 | 2SC298 | 2031 |
| 2SB120 | 2007 | 2SC17E | 2013 | 2SC74J | 2013 | 2SC138 | 2009 | 2SC179 | 2001 | 2SC197M | 2013 | 2SC300 | 2016 |
| 2SB153 | 2007 | 2SC17G | 2013 | 2SC74K | 2013 | 2SC138A | 2009 | 2SC182 | 2016 | 2SC197OR | 2013 | 2SC301 | 2016 |
| 2SB154 | 2007 | 2SC17GN | 2013 | 2SC74L | 2013 | 2SC138S | 2009 | 2SC182(V) | 2009 | 2SC197R | 2013 | 2SC302 | 2016 |
| 2SB154C | 2009 | 2SC17H | 2013 | 2SC74M | 2013 | 2SC139 | 2009 | 2SC182Q | 2038 | 2SC197X | 2013 | 2SC-313 | 2011 |
| 2SB155 | 2007 | 2SC17J | 2013 | 2SC74R | 2013 | 2SC141 | 2016 | 2SC183 | 2031 | 2SC197Y | 2013 | 2SC313 | 2015 |
| 2SB161 | 2007 | 2SC17K | 2013 | 2SC74X | 2013 | 2SC142 | 2016 | 2SC183(P) | 2031 | 2SC198H | 2041 | 2SC315 | 2009 |
| 2SB163 | 2007 | 2SC17L | 2013 | 2SC74Y | 2013 | 2SC143 | 2016 | 2SC183(Q)(R) | 2031 | 2SC200 | 2038 | 2SC317 | 2009 |
| 2SB165 | 2007 | 2SC17M | 2013 | 2SC75 | 2001 | 2SC144 | 2016 | 2SC183(R) | 2009 | 2SC201 | 2038 | 2SC317C | 2009 |
| 2SB168 | 2007 | 2SC17OR | 2013 | 2SC76 | 2001 | 2SC144A | 2016 | 2SC183A | 2016 | 2SC202 | 2009 | 2SC318 | 2016 |
| 2SB169 | 2007 | 2SC17R | 2013 | 2SC77 | 2001 | 2SC145 | 2016 | 2SC183E | 2038 | 2SC203 | 2016 | 2SC318A | 2016 |
| 2SB175(A) | 2007 | 2SC17X | 2013 | 2SC77C | 2001 | 2SC146 | 2016 | 2SC183J | 2038 | 2SC204 | 2038 | 2SC319 | 2009 |
| 2SB177A | 2001 | 2SC17Y | 2013 | 2SC77Z | 2013 | 2SC146A | 2016 | 2SC183K | 2038 | 2SC205 | 2009 | 2SC320 | 2009 |
| 2SB179 | 2007 | 2SC18 | 2015 | 2SC78 | 2001 | 2SC148A | 2013 | 2SC183L | 2038 | 2SC206 | 2015 | 2SC321 | 2016 |
| 2SB183 | 2007 | 2SC18A | 2030 | 2SC79 | 2016 | 2SC148B | 2013 | 2SC183M | 2038 | 2SC206A | 2013 | 2SC321H | 2016 |
| 2SB184 | 2007 | 2SC19 | 2030 | 2SC80 | 2016 | 2SC148D | 2013 | 2SC183P | 2038 | 2SC206B | 2013 | 2SC321HA | 2009 |
| 2SB190 | 2007 | 2SC20 | 2030 | 2SC81 | 2009 | 2SC148E | 2013 | 2SC183Q | 2038 | 2SC206C | 2013 | 2SC321HB | 2009 |
| 2SB191 | 2007 | 2SC21 | 2041 | 2SC82BN | 2011 | 2SC148F | 2013 | 2SC183R | 2038 | 2SC206D | 2013 | 2SC321HC | 2009 |
| 2SB192 | 2007 | | | | | 2SC148G | 2013 | | | | | 2SC322 | 2016 |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
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| 2SC324G | 2013 | 2SC370B | 2013 | 2SC377-ORG | 2016 | 2SC381E | 2013 | 2SC389Y | 2014 | 2SC401D | 2013 | 2SC430Y | 2013 |
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| 2SC324K | 2013 | 2SC370L | 2013 | 2SC377C | 2013 | 2SC381J | 2013 | 2SC390E | 2014 | 2SC401H | 2013 | 2SC442 | 2009 |
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| 2SC329C | 2011 | 2SC371-RED-G | 2016 | 2SC377X | 2013 | 2SC383 | 2016 | 2SC391 | 2038 | 2SC403A | 2016 | 2SC454G | 2013 |
| 2SC332 | 2016 | 2SC371-T | 2016 | 2SC377Y | 2013 | 2SC383(3RD-IF) | 2010 | 2SC393 | 2011 | 2SC403B | 2016 | 2SC454GN | 2013 |
| 2SC333 | 2016 | 2SC371A | 2013 | 2SC378 | 2016 | 2SC383(FINAL-IF) | 2010 | 2SC394 | 2016 | 2SC403C | 2016 | 2SC454H | 2013 |
| 2SC334 | 2016 | 2SC371B | 2009 | 2SC378-O | 2016 | 2SC383(T) | 2013 | 2SC394(0) | 2013 | 2SC403D | 2013 | 2SC454J | 2013 |
| 2SC335 | 2016 | 2SC371C | 2013 | 2SC378-ORG | 2016 | 2SC383A | 2013 | 2SC394-0 | 2013 | 2SC403E | 2013 | 2SC454K | 2013 |
| 2SC336 | 2016 | 2SC371D | 2013 | 2SC378-RED | 2016 | 2SC383B | 2013 | 2SC394-ORG | 2016 | 2SC403F | 2013 | 2SC454L | 2013 |
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| 2SC344 | 2011 | 2SC371F | 2013 | 2SC378A | 2013 | 2SC383D | 2013 | 2SC394-RED | 2016 | 2SC403GN | 2013 | 2SC454M | 2013 |
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| 2SC348H | 2014 | 2SC371OR | 2013 | 2SC378L | 2013 | 2SC383T(LAST-IF) | 2010 | 2SC394GR | 2013 | 2SC404A | 2013 | 2SC455F | 2013 |
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| 2SC349 | 2011 | 2SC372(Y) | 2009 | 2SC380-0 | 2013 | 2SC384C | 2013 | 2SC394W | 2013 | 2SC404H | 2013 | 2SC455OR | 2013 |
| 2SC349R | 2009 | 2SC372/4454C | 2009 | 2SC380-0/4454C | 2013 | 2SC384D | 2013 | 2SC394X | 2013 | 2SC404J | 2013 | 2SC455R | 2013 |
| 2SC350 | 2016 | 2SC372-0 | 2009 | 2SC380-O | 2016 | 2SC384E | 2013 | 2SC394Y | 2013 | 2SC404K | 2013 | 2SC455X | 2013 |
| 2SC350A | 2009 | 2SC372-1 | 2009 | 2SC380-O/4454C | 2016 | 2SC384F | 2013 | 2SC395 | 2016 | 2SC404L | 2013 | 2SC455Y | 2013 |
| 2SC350H | 2016 | 2SC372-2 | 2009 | 2SC380-R | 2016 | 2SC384G | 2013 | 2SC395A-ORG | 2033 | 2SC404M | 2013 | 2SC456 | 2030 |
| 2SC351 | 2038 | 2SC372-O | 2013 | 2SC380-RED | 2016 | 2SC384GN | 2013 | 2SC395A-R | 2009 | 2SC404OR | 2013 | 2SC457 | 2016 |
| 2SC351(FA) | 2011 | 2SC372-ORG-G | 2016 | 2SC380-Y | 2013 | 2SC384H | 2013 | 2SC395A-RED | 2033 | 2SC404X | 2013 | 2SC458(C,D) | 2009 |
| 2SC351FA1 | 2009 | 2SC372-R | 2009 | 2SC380-YEL | 2014 | 2SC384J | 2013 | 2SC395A-YEL | 2010 | 2SC404Y | 2013 | 2SC458(D) | 2009 |
| 2SC356 | 2016 | 2SC372-Y | 2009 | 2SC380A-0 | 2013 | 2SC384K | 2013 | 2SC395R | 2009 | 2SC405 | 2001 | 2SC458(LG) | 2009 |
| 2SC360 | 2016 | 2SC372-Z | 2009 | 2SC380A-0(TV) | 2013 | 2SC384L | 2013 | 2SC396 | 2016 | 2SC406 | 2001 | 2SC458BD | 2010 |
| 2SC360D | 2009 | 2SC372A | 2013 | 2SC380A | 2013 | 2SC384M | 2013 | 2SC397 | 2015 | 2SC423 | 2009 | 2SC458C/L6 | 2031 |
| 2SC361 | 2016 | 2SC372AR | 2013 | 2SC380A(O) | 2013 | 2SC384OR | 2013 | 2SC398 | 2016 | 2SC423B | 2009 | 2SC458L(C) | 2009 |
| 2SC361A | 2013 | 2SC372B | 2013 | 2SC380A(R) | 2009 | 2SC384R | 2013 | 2SC398A | 2013 | 2SC423C | 2009 | 2SC458LG | 2009 |
| 2SC361B | 2013 | 2SC372BL | 2009 | 2SC380A-O | 2016 | 2SC384X | 2013 | 2SC398B | 2013 | 2SC423D | 2009 | 2SC458LG(B) | 2009 |
| 2SC361C | 2013 | 2SC372C | 2013 | 2SC380AO | 2013 | 2SC385 | 2015 | 2SC398C | 2013 | 2SC423E | 2009 | 2SC458LG(C) | 2009 |
| 2SC361D | 2013 | 2SC372D | 2013 | 2SC380A-O(TV) | 2013 | 2SC385A | 2011 | 2SC398D | 2013 | 2SC423F | 2009 | 2SC458LG(D) | 2009 |
| 2SC361E | 2013 | 2SC372E | 2013 | 2SC380A-R | 2016 | 2SC386 | 2016 | 2SC398E | 2013 | 2SC424 | 2033 | 2SC459 | 2016 |
| 2SC361F | 2013 | 2SC372F | 2013 | 2SC380AR | 2013 | 2SC386-O | 2009 | 2SC398F | 2013 | 2SC424D | 2009 | 2SC459A | 2013 |
| 2SC361G | 2013 | 2SC372G | 2016 | 2SC380A-R(TV) | 2013 | 2SC386A | 2015 | 2SC398FA1 | 2011 | 2SC425 | 2009 | 2SC459C | 2013 |
| 2SC361GN | 2013 | 2SC372GN | 2013 | 2SC380ATV | 2013 | 2SC387 | 2015 | 2SC398G | 2013 | 2SC425B | 2009 | 2SC459D | 2013 |
| 2SC361H | 2013 | 2SC372G-O | 2016 | 2SC380AY | 2013 | 2SC387-G | 2015 | 2SC398GN | 2013 | 2SC425C | 2009 | 2SC459F | 2013 |
| 2SC361J | 2013 | 2SC372GR | 2009 | 2SC380B | 2013 | 2SC387A | 2015 | 2SC398H | 2013 | 2SC425D | 2009 | 2SC459G | 2013 |
| 2SC361K | 2013 | 2SC372H | 2009 | 2SC380B-Y | 2013 | 2SC387A(FA-3) | 2015 | 2SC398J | 2013 | 2SC425E | 2009 | 2SC459GN | 2013 |
| 2SC361L | 2013 | 2SC372J | 2013 | 2SC380C | 2013 | 2SC387FA3 | 2011 | 2SC398K | 2013 | 2SC425F | 2009 | 2SC459H | 2013 |
| 2SC361M | 2013 | 2SC372K | 2013 | 2SC380C-Y | 2013 | 2SC387G | 2015 | 2SC398L | 2013 | 2SC426 | 2016 | 2SC459J | 2013 |
| 2SC361OR | 2013 | 2SC372L | 2013 | 2SC380D | 2013 | 2SC388 | 2011 | 2SC398M | 2013 | 2SC427 | 2009 | 2SC459L | 2013 |
| 2SC361R | 2013 | 2SC372M | 2013 | 2SC380D-Y | 2013 | 2SC388A | 2016 | 2SC398OR | 2013 | 2SC428 | 2016 | 2SC459M | 2013 |
| 2SC361X | 2013 | 2SC372O | 2031 | 2SC380E | 2013 | 2SC388A(3RD-IF) | 2010 | 2SC398X | 2013 | 2SC429 | 2011 | 2SC459OR | 2013 |
| 2SC361Y | 2013 | 2SC372OR | 2013 | 2SC380E-Y | 2013 | 2SC388B | 2009 | 2SC398Y | 2013 | 2SC429A | 2013 | 2SC459R | 2013 |
| 2SC362 | 2011 | 2SC372X | 2013 | 2SC380F | 2013 | 2SC388C | 2013 | 2SC399 | 2016 | 2SC429B | 2013 | 2SC459X | 2013 |
| 2SC363 | 2009 | 2SC372Y | 2009 | 2SC380F-Y | 2013 | 2SC388D | 2013 | 2SC399A | 2013 | 2SC429C | 2013 | 2SC459Y | 2013 |
| 2SC364 | 2009 | 2SC373(GR) | 2009 | 2SC380G | 2013 | 2SC388E | 2013 | 2SC399B | 2013 | 2SC429D | 2013 | 2SC460 | 2016 |
| 2SC366 | 2033 | 2SC374(BL) | 2009 | 2SC380GN | 2013 | 2SC388F | 2013 | 2SC399C | 2013 | 2SC429E | 2013 | 2SC460(A) | 2010 |
| 2SC366-ORG-G | 2009 | 2SC374(V) | 2009 | 2SC380H | 2013 | 2SC388G | 2013 | 2SC399D | 2013 | 2SC429F | 2013 | 2SC460(B) | 2010 |
| 2SC366-RED-G | 2009 | 2SC374A | 2013 | 2SC380J | 2013 | 2SC388GN | 2013 | 2SC399E | 2013 | 2SC429G | 2013 | 2SC460-5 | 2013 |
| 2SC366G | 2009 | 2SC374B | 2013 | 2SC380K | 2013 | 2SC388H | 2013 | 2SC399F | 2013 | 2SC429GN | 2013 | 2SC460-B | 2013 |
| 2SC366G-R | 2009 | 2SC374C | 2013 | 2SC380L | 2013 | 2SC388J | 2013 | 2SC399FA1 | 2011 | 2SC429H | 2013 | 2SC460-C | 2013 |
| 2SC367 | 2009 | 2SC374D | 2013 | 2SC380M | 2013 | 2SC388K | 2013 | 2SC399G | 2013 | 2SC429K | 2013 | 2SC460A | 2010 |
| 2SC367-O | 2033 | 2SC374E | 2013 | 2SC380O | 2013 | 2SC388L | 2013 | 2SC399GN | 2013 | 2SC429L | 2013 | 2SC460B | 2010 |
| 2SC367-ORG-G | 2033 | 2SC374F | 2013 | 2SC380OR | 2013 | 2SC388M | 2013 | 2SC399H | 2013 | 2SC429M | 2013 | 2SC460C | 2010 |
| 2SC367-R | 2033 | 2SC374GN | 2013 | 2SC380R | 2013 | 2SC388O | 2013 | 2SC399J | 2013 | 2SC429OR | 2013 | 2SC460D | 2010 |
| 2SC367-RED-G | 2009 | 2SC374H | 2013 | 2SC380R/4454C | 2013 | 2SC388OR | 2013 | 2SC399K | 2013 | 2SC429R | 2013 | 2SC460E | 2013 |
| 2SC367-YEL-G | 2033 | 2SC374J | 2013 | 2SC380X | 2013 | 2SC388R | 2013 | 2SC399L | 2013 | 2SC429Y | 2013 | 2SC460F | 2013 |
| 2SC367G | 2033 | 2SC374K | 2013 | 2SC380Y | 2013 | 2SC388X | 2013 | 2SC399M | 2013 | 2SC430 | 2011 | 2SC460G | 2010 |
| 2SC367G-O | 2033 | 2SC374L | 2013 | 2SC381 | 2016 | 2SC388Y | 2013 | 2SC399OR | 2013 | 2SC430A | 2013 | 2SC460GB | 2010 |
| 2SC367G-R | 2033 | 2SC374M | 2013 | 2SC381(BN) | 2030 | 2SC389 | 2016 | 2SC399X | 2013 | 2SC430B | 2013 | 2SC460GN | 2013 |
| 2SC369 | 2009 | 2SC374OR | 2013 | 2SC381-0 | 2011 | 2SC389A | 2014 | 2SC399Y | 2013 | 2SC430C | 2013 | 2SC460H | 2010 |
| 2SC369BL | 2009 | 2SC374R | 2013 | 2SC381-BN | 2016 | 2SC389B | 2014 | 2SC400 | 2016 | 2SC430D | 2013 | 2SC460J | 2013 |
| 2SC369G | 2009 | 2SC374V | 2013 | 2SC381-BRN | 2015 | 2SC389C | 2014 | 2SC400-0 | 2009 | 2SC430E | 2013 | 2SC460K | 2013 |
| 2SC369G-BL | 2009 | 2SC374X | 2013 | 2SC381-O | 2016 | 2SC389D | 2014 | | | 2SC430F | 2013 | 2SC460L | 2010 |
| 2SC369GBL | 2009 | | | 2SC381-ORG | 2016 | 2SC389F | 2014 | | | 2SC430G | 2013 | 2SC460M | 2013 |
| 2SC369G-GR | 2009 | | | | | 2SC389G | 2014 | | | 2SC430GN | 2013 | 2SC460OR | 2013 |
| 2SC369GGR | 2009 | | | | | 2SC389GN | 2014 | | | | | | |
| 2SC369GR | 2009 | | | | | | | | | | | | |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 2SC461(8F) | 2030 | 2SC472K | 2013 | 2SC535ABC | 2030 | 2SC545C | 2011 | 2SC606E | 2013 | 2SC647 | 2041 | 2SC682OR | 2013 | | |
| 2SC461-8F | 2011 | 2SC472L | 2013 | 2SC535AL | 2013 | 2SC545D | 2011 | 2SC606F | 2013 | 2SC647Q | 2041 | 2SC682R | 2013 | | |
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| 2SC461-B | 2013 | 2SC472OR | 2013 | 2SC535C | 2013 | 2SC554 | 2009 | 2SC606GN | 2013 | 2SC648H | 2013 | 2SC682Y | 2013 | | |
| 2SC461A | 2013 | 2SC472R | 2013 | 2SC535D | 2013 | 2SC556 | 2038 | 2SC606H | 2013 | 2SC649 | 2016 | 2SC683 | 2038 | | |
| 2SC461AL | 2013 | 2SC472X | 2013 | 2SC535E | 2013 | 2SC559 | 2038 | 2SC606J | 2013 | 2SC650B | 2009 | 2SC683(B) | 2011 | | |
| 2SC461B | 2013 | 2SC474 | 2016 | 2SC535F | 2013 | 2SC561 | 2015 | 2SC606K | 2013 | 2SC652 | 2038 | 2SC683C | 2013 | | |
| 2SC461BK | 2013 | 2SC475 | 2009 | 2SC535G | 2013 | 2SC561A | 2013 | 2SC606L | 2013 | 2SC654 | 2009 | 2SC683D | 2013 | | |
| 2SC461BL | 2013 | 2SC475K | 2009 | 2SC535GN | 2013 | 2SC561B | 2013 | 2SC606M | 2013 | 2SC655 | 2009 | 2SC683E | 2013 | | |
| 2SC461C | 2013 | 2SC476 | 2009 | 2SC535H | 2013 | 2SC561C | 2013 | 2SC606N | 2038 | 2SC656 | 2011 | 2SC683F | 2013 | | |
| 2SC461E | 2013 | 2SC477 | 2016 | 2SC535J | 2013 | 2SC561D | 2013 | 2SC606OR | 2013 | 2SC657 | 2016 | 2SC683G | 2013 | | |
| 2SC461EP | 2013 | 2SC478 | 2016 | 2SC535K | 2013 | 2SC561E | 2013 | 2SC606R | 2013 | 2SC657A | 2013 | 2SC683GN | 2013 | | |
| 2SC461L | 2013 | 2SC482 | 2030 | 2SC535L | 2013 | 2SC561F | 2013 | 2SC606X | 2013 | 2SC657B | 2013 | 2SC683H | 2013 | | |
| 2SC462 | 2009 | 2SC482-O | 2030 | 2SC535M | 2013 | 2SC561G | 2013 | 2SC606Y | 2013 | 2SC657C | 2013 | 2SC683J | 2013 | | |
| 2SC463 | 2016 | 2SC482-ORG | 2030 | 2SC535OR | 2013 | 2SC561GN | 2013 | 2SC611 | 2038 | 2SC657D | 2013 | 2SC683K | 2013 | | |
| 2SC464 | 2015 | 2SC490-RED | 2020 | 2SC535X | 2013 | 2SC561H | 2013 | 2SC613 | 2016 | 2SC657E | 2013 | 2SC683L | 2013 | | |
| 2SC464A | 2013 | 2SC490-YEL | 2020 | 2SC535Y | 2013 | 2SC561J | 2013 | 2SC618 | 2015 | 2SC657F | 2013 | 2SC683M | 2013 | | |
| 2SC464B | 2013 | 2SC496-ORG | 2009 | 2SC536 | 2016 | 2SC561K | 2013 | 2SC618A | 2015 | 2SC657G | 2013 | 2SC683OR | 2013 | | |
| 2SC464D | 2013 | 2SC496-RED | 2009 | 2SC536(E) | 2009 | 2SC561L | 2013 | 2SC619 | 2016 | 2SC657GN | 2013 | 2SC683R | 2013 | | |
| 2SC464E | 2013 | 2SC496-YEL | 2009 | 2SC536A(3RD-IF) | 2010 | 2SC561M | 2013 | 2SC619(B) | 2009 | 2SC657H | 2013 | 2SC683X | 2013 | | |
| 2SC464F | 2013 | 2SC496A | 2041 | 2SC536GJ | 2009 | 2SC561OR | 2013 | 2SC619(C) | 2009 | 2SC657J | 2013 | 2SC683Y | 2013 | | |
| 2SC464G | 2013 | 2SC496B | 2041 | 2SC536GP | 2009 | 2SC561R | 2013 | 2SC619B | 2009 | 2SC657K | 2013 | 2SC684 | 2015 | | |
| 2SC464GN | 2013 | 2SC496C | 2041 | 2SC537 | 2016 | 2SC561X | 2013 | 2SC619C | 2009 | 2SC657L | 2013 | 2SC684R | 2032 | | |
| 2SC464H | 2013 | 2SC496D | 2041 | 2SC537(F) | 2009 | 2SC561Y | 2013 | 2SC619D | 2009 | 2SC657M | 2013 | 2SC688A | 2013 | | |
| 2SC464J | 2013 | 2SC496E | 2041 | 2SC537(G) | 2009 | 2SC562 | 2016 | 2SC620 | 2016 | 2SC657OR | 2013 | 2SC688B | 2013 | | |
| 2SC464K | 2013 | 2SC496F | 2041 | 2SC537-01 | 2009 | 2SC562A | 2013 | 2SC620(C) | 2009 | 2SC657R | 2013 | 2SC688D | 2013 | | |
| 2SC464L | 2013 | 2SC496G | 2041 | 2SC537C | 2009 | 2SC562B | 2013 | 2SC620(D) | 2009 | 2SC657X | 2013 | 2SC688E | 2013 | | |
| 2SC464M | 2013 | 2SC496GN | 2041 | 2SC537D | 2009 | 2SC562D | 2013 | 2SC620C | 2009 | 2SC657Y | 2013 | 2SC688F | 2013 | | |
| 2SC464OR | 2013 | 2SC496H | 2041 | 2SC537D2 | 2009 | 2SC562E | 2013 | 2SC620CD | 2009 | 2SC659 | 2016 | 2SC688G | 2013 | | |
| 2SC464R | 2013 | 2SC496J | 2041 | 2SC537E | 2009 | 2SC562F | 2013 | 2SC620D | 2009 | 2SC662 | 2011 | 2SC688GN | 2013 | | |
| 2SC464X | 2013 | 2SC496K | 2041 | 2SC537EF | 2009 | 2SC562G | 2013 | 2SC620DE | 2009 | 2SC662A | 2013 | 2SC688H | 2013 | | |
| 2SC464Y | 2013 | 2SC496M | 2041 | 2SC537EH | 2009 | 2SC562GN | 2013 | 2SC620E | 2009 | 2SC663 | 2015 | 2SC688J | 2013 | | |
| 2SC465 | 2015 | 2SC496OR | 2041 | 2SC537EJ | 2009 | 2SC562H | 2013 | 2SC621 | 2016 | 2SC663A | 2014 | 2SC688K | 2013 | | |
| 2SC465A | 2013 | 2SC496X | 2041 | 2SC537EK | 2009 | 2SC562J | 2013 | 2SC622 | 2016 | 2SC663B | 2014 | 2SC688L | 2013 | | |
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| 2SC465H | 2013 | 2SC499G | 2012 | 2SC537G1 | 2009 | 2SC563A(3RDIF) | 2010 | 2SC629B | 2013 | 2SC663J | 2014 | 2SC695 | 2010 | | |
| 2SC465J | 2013 | 2SC499GN | 2012 | 2SC537G2 | 2009 | 2SC563B | 2013 | 2SC629C | 2013 | 2SC663K | 2014 | 2SC696AA | 2009 | | |
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| 2SC465Y | 2013 | 2SC500A | 2012 | 2SC538 | 2016 | 2SC563K | 2013 | 2SC629J | 2013 | 2SC664 | 2041 | 2SC696AI | 2009 | | |
| 2SC466 | 2015 | 2SC500B | 2012 | 2SC538A | 2016 | 2SC563L | 2013 | 2SC629K | 2013 | 2SC664B | 2041 | 2SC696GU | 2009 | | |
| 2SC466A | 2013 | 2SC500C | 2012 | 2SC538A(Q) | 2013 | 2SC563M | 2013 | 2SC629L | 2013 | 2SC664C | 2041 | 2SC702 | 2009 | | |
| 2SC466B | 2013 | 2SC500D | 2012 | 2SC538AQ | 2009 | 2SC563OR | 2013 | 2SC629M | 2013 | 2SC668 | 2038 | 2SC705 | 2011 | | |
| 2SC466C | 2013 | 2SC500E | 2012 | 2SC538AR | 2013 | 2SC563R | 2013 | 2SC629OR | 2013 | 2SC668(C) | 2030 | 2SC705B | 2011 | | |
| 2SC466D | 2013 | 2SC500F | 2012 | 2SC538P | 2009 | 2SC563X | 2013 | 2SC629R | 2013 | 2SC668(D) | 2011 | 2SC705C | 2011 | | |
| 2SC466E | 2013 | 2SC500G | 2012 | 2SC538Q | 2009 | 2SC563Y | 2013 | 2SC629X | 2013 | 2SC668-0 | 2013 | 2SC705D | 2011 | | |
| 2SC466F | 2013 | 2SC500GN | 2012 | 2SC538R | 2009 | 2SC564 | 2030 | 2SC629Y | 2013 | 2SC668A | 2013 | 2SC705E | 2011 | | |
| 2SC466G | 2013 | 2SC500H | 2012 | 2SC538S | 2009 | 2SC564(Q) | 2009 | 2SC631 | 2009 | 2SC668B | 2013 | 2SC705F | 2011 | | |
| 2SC466GN | 2013 | 2SC500J | 2012 | 2SC538T | 2009 | 2SC565 | 2016 | 2SC631A | 2009 | 2SC668B1 | 2013 | 2SC705TV | 2011 | | |
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| 2SC468H | 2016 | 2SC509(O) | 2009 | 2SC543E | 2013 | 2SC593 | 2016 | 2SC634A | 2009 | 2SC668DZ | 2013 | 2SC709CD | 2009 | | |
| 2SC469 | 2016 | 2SC509(Y) | 2009 | 2SC543F | 2013 | 2SC595 | 2016 | 2SC635A | 2031 | 2SC668E | 2013 | 2SC709D | 2009 | | |
| 2SC469A | 2038 | 2SC520 | 2041 | 2SC543G | 2013 | 2SC596 | 2009 | 2SC638C | 2013 | 2SC668E1 | 2013 | 2SC710 | 2016 | | |
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| 2SC469C | 2013 | 2SC521 | 2041 | 2SC543H | 2013 | 2SC601N | 2016 | 2SC640 | 2009 | 2SC668EP | 2013 | 2SC710(C) | 2009 | | |
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| 2SC469E | 2013 | 2SC527 | 2016 | 2SC543K | 2013 | 2SC604 | 2011 | 2SC641 | 2016 | 2SC668EX | 2013 | 2SC710-1 | 2009 | | |
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| 2SC469J | 2013 | 2SC529D | 2013 | 2SC543X | 2013 | 2SC605E | 2013 | 2SC644A | 2013 | 2SC668K | 2013 | 2SC710B2 | 2014 | | |
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| 2SC472F | 2013 | | | | | | | 2SC645OR | 2013 | | | | | | |

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| 2SC941-O | 2016 | 2SC1023Y | 2013 | 2SC1123B | 2013 | 2SC1318(P,R) | 2010 | 2SC1390I | 2009 | 2SC2076D | 2010 | 2SCF2 | 2009 |
| 2SC941-OY | 2010 | 2SC1026 | 2031 | 2SC1123C | 2013 | 2SC1318(Q) | 2010 | 2SC1390I(W) | 2009 | 2SC2818 | 2009 | 2SCF2A | 2013 |
| 2SC941-R | 2016 | 2SC1026(G) | 2030 | 2SC1123D | 2013 | 2SC1318A | 2010 | 2SC1390IW | 2009 | 2SC2884 | 2011 | 2SCF2B | 2013 |
| 2SC941-Y | 2009 | 2SC1026-R | 2013 | 2SC1123E | 2013 | 2SC1318B | 2010 | 2SC1390J | 2009 | 2SC3710 | 2009 | 2SCF2C | 2013 |
| 2SC941K | 2009 | 2SC1026D | 2013 | 2SC1123F | 2013 | 2SC1318C | 2010 | 2SC1390J(X) | 2009 | 2SC3720 | 2013 | 2SCF2D | 2013 |
| 2SC941R | 2009 | 2SC1026E | 2013 | 2SC1123GN | 2013 | 2SC1318E | 2010 | 2SC1390JX | 2009 | 2SC3720A | 2013 | 2SCF2E | 2013 |
| 2SC942 | 2038 | 2SC1026F | 2013 | 2SC1123H | 2013 | 2SC1318F | 2010 | 2SC1390K | 2009 | 2SC3720B | 2013 | 2SCF2G | 2013 |
| 2SC943 | 2009 | 2SC1026G | 2011 | 2SC1123J | 2013 | 2SC1318G | 2010 | 2SC1390L | 2009 | 2SC3720D | 2013 | 2SCF2H | 2013 |
| 2SC943A | 2009 | 2SC1026GN | 2013 | 2SC1123K | 2013 | 2SC1318GN | 2010 | 2SC1390V | 2009 | 2SC3720F | 2013 | 2SCF2J | 2013 |
| 2SC943B | 2009 | 2SC1026H | 2013 | 2SC1123L | 2013 | 2SC1318H | 2010 | 2SC1390W | 2009 | 2SC3720G | 2013 | 2SCF2K | 2013 |
| 2SC943C | 2009 | 2SC1026J | 2013 | 2SC1123M | 2013 | 2SC1318J | 2010 | 2SC1390WH | 2009 | 2SC3720GN | 2013 | 2SCF2L | 2013 |
| 2SC944 | 2009 | 2SC1026K | 2013 | 2SC1123OR | 2013 | 2SC1318K | 2010 | 2SC1390WI | 2009 | 2SC3720H | 2013 | 2SCF2R | 2013 |
| 2SC944K | 2009 | 2SC1026L | 2013 | 2SC1123R | 2013 | 2SC1318L | 2010 | 2SC1390WX | 2009 | 2SC3720J | 2013 | 2SCF2X | 2013 |
| 2SC945 | 2016 | 2SC1026M | 2013 | 2SC1123X | 2013 | 2SC1318M | 2010 | 2SC1390X | 2009 | 2SC3720K | 2013 | 2SCF2Y | 2013 |
| 2SC945(K) | 2009 | 2SC1026OR | 2013 | 2SC1123Y | 2013 | 2SC1318S,R | 2010 | 2SC1390XJ | 2009 | 2SC3720L | 2013 | 2SCF5 | 2009 |
| 2SC945(P) | 2009 | 2SC1026R | 2013 | 2SC1126 | 2015 | 2SC1318X | 2010 | 2SC1390XK | 2009 | 2SC37200R | 2013 | 2SC-F6 | 2009 |
| 2SC945(TK,P) | 2009 | 2SC1026X | 2013 | 2SC1126A | 2013 | 2SC1318Y | 2010 | 2SC1390Y | 2009 | 2SC3720R | 2013 | 2SC-F11 | 2013 |
| 2SC945(TP) | 2009 | 2SC1026Y | 2011 | 2SC1126B | 2013 | 2SC1320(K) | 2013 | 2SC1390YM | 2009 | 2SC3720X | 2013 | 2SCF11 | 2038 |
| 2SC945(TQ,Q) | 2009 | 2SC1030B2C | 2041 | 2SC1126E | 2013 | 2SC1320A | 2013 | 2SC1393 | 2009 | 2SC3720Y | 2013 | 2SC-F11A | 2013 |
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| 2SC948 | 2015 | 2SC1032(Y) | 2030 | 2SC1126GN | 2013 | 2SC1320C | 2013 | 2SC1395 | 2011 | 2SC3800 | 2013 | 2SC-F11C | 2013 |
| 2SC957 | 2038 | 2SC1032A | 2013 | 2SC1126J | 2013 | 2SC1320D | 2013 | 2SC1396 | 2015 | 2SC3800A | 2013 | 2SC-F11D | 2013 |
| 2SC962 | 2041 | 2SC1032B | 2013 | 2SC1126K | 2013 | 2SC1320E | 2013 | 2SC1409 | 2012 | 2SC3800B | 2013 | 2SC-F11E | 2013 |
| 2SC963 | 2016 | 2SC1032BL | 2013 | 2SC1126L | 2013 | 2SC1320F | 2013 | 2SC1409A | 2012 | 2SC3800C | 2013 | 2SC-F11F | 2013 |
| 2SC964 | 2009 | 2SC1032C | 2013 | 2SC1126M | 2013 | 2SC1320G | 2013 | 2SC1409AB | 2012 | 2SC3800D | 2013 | 2SC-F11G | 2013 |
| 2SC966 | 2009 | 2SC1032D | 2013 | 2SC1126OR | 2013 | 2SC1320GN | 2013 | 2SC1409B | 2012 | 2SC3800E | 2013 | 2SC-F11GN | 2013 |
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| 2SC968 | 2009 | 2SC1032F | 2013 | 2SC1126X | 2013 | 2SC1320J | 2013 | 2SC1411 | 2031 | 2SC3800G | 2013 | 2SC-F11J | 2013 |
| 2SC968P | 2009 | 2SC1032G | 2011 | 2SC1128(3RD-IF) | 2010 | 2SC1320K | 2011 | 2SC1417 | 2013 | 2SC3800GN | 2013 | 2SC-F11K | 2013 |
| 2SC971A | 2013 | 2SC1032GN | 2013 | 2SC1128(FINAL-IF) | 2010 | 2SC1320L | 2013 | 2SC1417(V,G) | 2009 | 2SC3800H | 2013 | 2SC-F11L | 2013 |
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| 2SC971C | 2013 | 2SC1032J | 2013 | 2SC1128A | 2013 | 2SC1320OR | 2013 | 2SC1417C | 2011 | 2SC3800K | 2013 | 2SC-F11OR | 2013 |
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| 2SC971H | 2013 | 2SC1032X | 2013 | 2SC1128M | 2013 | 2SC1327S | 2016 | 2SC1417H | 2011 | 2SC3854 | 2011 | 2SC-F14C | 2013 |
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| 2SC971K | 2013 | 2SC1033 | 2009 | 2SC1128S | 2013 | 2SC1335 | 2016 | 2SC1417V | 2011 | 2SC3940A | 2013 | 2SC-F14E | 2013 |
| 2SC971L | 2013 | 2SC1033A | 2009 | 2SC1128S(3ROIF) | 2010 | 2SC1335G | 2010 | 2SC1417VF | 2009 | 2SC3940B | 2013 | 2SC-F14F | 2013 |
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| 2SC984 | 2009 | 2SC1035L | 2014 | 2SC1129Y | 2013 | 2SC1335X | 2010 | 2SC1547 | 2015 | 2SC3940J | 2013 | 2SC-F14R | 2013 |
| 2SC984A | 2009 | 2SC1035M | 2014 | 2SC1152(F) | 2041 | 2SC1335Y | 2010 | 2SC1550-1 | 2012 | 2SC3940K | 2013 | 2SC-F14X | 2013 |
| 2SC984B | 2009 | 2SC1035OR | 2014 | 2SC1159 | 2011 | 2SC1342 | 2015 | 2SC1571 | 2016 | 2SC3940L | 2013 | 2SCM39J | 2013 |
| 2SC984C | 2009 | 2SC1035R | 2014 | 2SC1173(R.F.PWR) | 2020 | 2SC1342(A) | 2009 | 2SC1571L | 2010 | 2SC3940OR | 2013 | 2SCM39X | 2013 |
| 2SC985 | 2031 | 2SC1035X | 2014 | 2SC1173X(RF-PWR) | 2020 | 2SC1342(B) | 2009 | 2SC1585F | 2011 | 2SC3940R | 2013 | 2SCM93D | 2041 |
| 2SC985A | 2013 | 2SC1035Y | 2014 | 2SC1175 | 2009 | 2SC1342(C) | 2009 | 2SC1585F,H | 2011 | 2SC3940X | 2013 | 2SCS183E | 2009 |
| 2SC987 | 2031 | 2SC1036 | 2038 | 2SC1175C | 2009 | 2SC1342A | 2013 | 2SC1585H | 2011 | 2SC3940Y | 2013 | 2SCS184E | 2009 |
| 2SC987A | 2031 | 2SC1036A | 2014 | 2SC1175D | 2009 | 2SC1342B | 2013 | 2SC1589 | 2018 | 2SC4033 | 2013 | 2SCS429 | 2013 |
| 2SC988 | 2031 | 2SC1036C | 2014 | 2SC1175E,D,F | 2009 | 2SC1342C | 2013 | 2SC1618 | 2041 | 2SC4033A | 2013 | 2SCS429A | 2013 |
| 2SC988A | 2031 | 2SC1036D | 2014 | 2SC1175F | 2009 | 2SC1342D | 2013 | 2SC1618B | 2041 | 2SC4033B | 2013 | 2SCS429B | 2013 |
| 2SC988B | 2031 | 2SC1036E | 2014 | 2SC1182 | 2013 | 2SC1342E | 2013 | 2SC1621 | 2016 | 2SC4033C | 2013 | 2SCS429C | 2013 |
| 2SC991 | 2009 | 2SC1036F | 2014 | 2SC1187 | 2013 | 2SC1342F | 2013 | 2SC1623 | 2016 | 2SC4033D | 2013 | 2SCS429D | 2013 |
| 2SC992 | 2009 | 2SC1036GN | 2014 | 2SC1205 | 2016 | 2SC1342GN | 2013 | 2SC1634 | 2009 | 2SC4033E | 2013 | 2SCS429E | 2013 |
| 2SC993 | 2016 | 2SC1036H | 2014 | 2SC1210 | 2009 | 2SC1342H | 2013 | 2SC1639 | 2009 | 2SC4033F | 2013 | 2SCS429F | 2013 |
| 2SC993E | 2009 | 2SC1036J | 2014 | 2SC1214(B) | 2009 | 2SC1342J | 2013 | 2SC1641 | 2009 | 2SC4033G | 2013 | 2SCS429G | 2013 |
| 2SC994 | 2038 | 2SC1036K | 2014 | 2SC1215 | 2011 | 2SC1342K | 2013 | 2SC1641Q | 2009 | 2SC4033GN | 2013 | 2SCS429GN | 2013 |
| 2SC997A | 2013 | 2SC1036L | 2014 | 2SC1215C | 2013 | 2SC1342L | 2013 | 2SC1641R | 2009 | 2SC4033H | 2013 | 2SCS429H | 2013 |
| 2SC997B | 2013 | 2SC1036M | 2014 | 2SC1215D | 2013 | 2SC1342M | 2013 | 2SC1666 | 2038 | 2SC4033J | 2013 | 2SCS429L | 2013 |
| 2SC997C | 2013 | 2SC1036OR | 2014 | 2SC1215E | 2013 | 2SC1342OR | 2013 | 2SC1674 | 2013 | 2SC4033K | 2013 | 2SCS429M | 2013 |
| 2SC997D | 2013 | 2SC1036R | 2014 | 2SC1215F | 2013 | 2SC1342R | 2013 | 2SC1674K | 2013 | 2SC4033L | 2013 | 2SCS429OR | 2013 |
| 2SC997E | 2013 | 2SC1036X | 2014 | 2SC1215G | 2013 | 2SC1342X | 2013 | 2SC1674L | 2013 | 2SC4033M | 2013 | 2SCS429R | 2013 |
| 2SC997F | 2013 | 2SC1036Y | 2014 | 2SC1215GN | 2013 | 2SC1342Y | 2013 | 2SC1674M | 2013 | 2SC4033OR | 2013 | 2SCS429X | 2013 |
| 2SC997G | 2013 | 2SC1044 | 2038 | 2SC1215H | 2013 | 2SC1344 | 2016 | 2SC1675 | 2016 | 2SC4033R | 2013 | 2SCS429Y | 2013 |
| 2SC997GN | 2013 | 2SC1047 | 2015 | 2SC1215J | 2013 | 2SC1345(E) | 2009 | 2SC1675K | 2013 | 2SC4033X | 2013 | 2SCS430 | 2013 |
| 2SC997H | 2013 | 2SC1047A | 2013 | 2SC1215K | 2013 | 2SC1359 | 2013 | 2SC1675L | 2013 | 2SC4033Y | 2013 | 2SCS430A | 2013 |
| 2SC997J | 2013 | 2SC1047BCD | 2013 | 2SC1215L | 2013 | 2SC1359(A) | 2014 | 2SC1675M | 2013 | 2SC4116 | 2041 | 2SCS430B | 2013 |
| 2SC997K | 2013 | 2SC1047C | 2013 | 2SC1215M | 2013 | 2SC1359(B) | 2014 | 2SC1686 | 2013 | 2SC54300R | 2013 |  |  |
| 2SC997L | 2013 | 2SC1047D | 2013 | 2SC1215OR | 2013 | 2SC1359(C,B) | 2014 | 2SC1687 | 2009 | 2SC7108B | 2009 |  |  |
| 2SC997M | 2013 | 2SC1047E | 2013 | 2SC1215X | 2013 | 2SC1359A | 2014 | 2SC1688 | 2009 | 2SC7335-BL | 2009 |  |  |
| 2SC997OR | 2013 | 2SC1047F | 2013 | 2SC1215Y | 2013 | 2SC1359B | 2013 | 2SC1709 | 2033 | 2SC7354 |  |  |  |
| 2SC997R | 2013 | 2SC1047G | 2013 | 2SC1216 | 2013 |  |  | 2SC1730 | 2030 |  |  |  |  |
| 2SC997X | 2013 | 2SC1047GN | 2013 |  |  |  |  | 2SC1730L | 2030 |  |  |  |  |
| 2SC997Y | 2013 |  |  |  |  |  |  | 2SC1739 | 2009 |  |  |  |  |
|  |  |  |  |  |  |  |  | 2SC1740P | 2009 |  |  |  |  |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2SCS430C | 2013 | 2SD151E | 2041 | 2SK17R | 2035 | 2SK304 | 2035 | 2XAA111 | 1123 | 3N29 | 2001 | 4-2020-06800 | 1104 |
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| 2SCS430E | 2013 | 2SD151G | 2041 | 2SK19 | 2035 | 2SR1K | 1104 | 2XAA113 | 1123 | 3N31 | 2001 | 4-2020-07500 | 561 |
| 2SCS430F | 2013 | 2SD151GN | 2041 | 2SK19(BL) | 2036 | 2SR24 | 2035 | 3-0033 | 2009 | 3N34 | 2016 | 4-2020-07600 | 1104 |
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| 2SCS430J | 2013 | 2SD151J | 2041 | 2SK19BL | 2035 | 2T15X3 | 2011 | 3A152 | 1104 | 3N36 | 2001 | 4-2020-07700 | 1104 |
| 2SCS430K | 2013 | 2SD151K | 2041 | 2SK19FET | 2036 | 2T40 | 2009 | 3A154 | 1104 | 3N37 | 2001 | 4-2020-08001 | 1102 |
| 2SCS430L | 2013 | 2SD151L | 2041 | 2SK19GB | 2036 | 2T41 | 2009 | 3A156 | 1104 | 3N71 | 2015 | 4-2020-08200 | 1102 |
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| 2SCS430Y | 2013 | 2SD151Y | 2041 | 2SK19K | 2036 | 2T51 | 2001 | 3A252 | 1104 | 3N88 | 2011 | 4-2020-8700 | 1114 |
| 2SCS461 | 2013 | 2SD161 | 2001 | 2SK19V | 2036 | 2T52 | 2001 | 3A254 | 1104 | 3N90 | 2022 | 4-2020-10100 | 1102 |
| 2SCS461A | 2013 | 2SD162 | 2001 | 2SK19Y | 2036 | 2T53 | 2001 | 3A256 | 1104 | 3N91 | 2022 | 4-2020-10500 | 1104 |
| 2SCS461C | 2013 | 2SD163 | 2041 | 2SK22Y | 2035 | 2T54 | 2001 | 3A258 | 1114 | 3N92 | 2022 | 4-2020-12400 | 563 |
| 2SCS461D | 2013 | 2SD164 | 2041 | 2SK23 | 2036 | 2T55 | 2001 | 3A1510 | 1114 | 3N93 | 2022 | 4-2020-12700 | 564 |
| 2SCS461E | 2013 | 2SD167 | 2001 | 2SK23A | 2035 | 2T56 | 2001 | 3A2510 | 1114 | 3N94 | 2022 | 4-2020-13600 | 1104 |
| 2SCS461G | 2013 | 2SD172 | 2041 | 2SK23A540 | 2036 | 2T57 | 2001 | 3AS1 | 1104 | 3N95 | 2022 | 4-2020-14500 | 1104 |
| 2SCS461GN | 2013 | 2SD173 | 2041 | 2SK24 | 2036 | 2T58 | 2001 | 3AS2 | 1104 | 3N114 | 2022 | 4-2020-15600 | 1102 |
| 2SCS461H | 2013 | 2SD174 | 2041 | 2SK24DR | 2035 | 2T61 | 2001 | 3BB-20801 | 1104 | 3N115 | 2022 | 4-2020-16200 | 1102 |
| 2SCS461J | 2013 | 2SD175 | 2041 | 2SK24E | 2035 | 2T62 | 2001 | 3BS1 | 1104 | 3N116 | 2022 | 4-2021-04770 | 1114 |
| 2SCS461K | 2013 | 2SD176 | 2041 | 2SK25 | 2035 | 2T63 | 2001 | 3BS2 | 1104 | 3N117 | 2022 | 4-2021-04970 | 1104 |
| 2SCS461L | 2013 | 2SD180 | 2041 | 2SK25C | 2035 | 2T64 | 2001 | 3BZ61 | 1104 | 3N118 | 2022 | 4-2021-05070 | 1102(2) |
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| 2SCS461R | 2013 | 2SD188 | 2041 | 2SK25ET | 2035 | 2T65R | 2001 | 3DS1 | 1104 | 3N121 | 2011 | 4-2021-07470 | 1102 |
| 2SCS461X | 2013 | 2SD188A | 2041 | 2SK25F | 2035 | 2T66 | 2001 | 3DS2 | 1104 | 3N123 | 2022 | 4-2021-07670 | 1102 |
| 2SCS461Y | 2013 | 2SD188B | 2041 | 2SK25G | 2035 | 2T66R | 2001 | 3E-1 | 2009 | 3N127 | 2031 | 4-2021-08270 | 1104 |
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| 2SCS469A | 2013 | 2SD195 | 2001 | 2SK30(O) | 2035 | 2T69 | 2001 | 3E-3 | 2009 | 3N130 | 2022 | 4-2021-10270 | 1104 |
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| 2SCS469C | 2013 | 2SD198(H) | 2041 | 2SK30-C | 2035 | 2T72 | 2001 | 3E-64 | 1104 | 3N132 | 2022 | 4-2040-08000 | 1102 |
| 2SCS469D | 2013 | 2SD198(Q) | 2041 | 2SK30-R | 2035 | 2T73 | 2001 | 3E-65 | 1104 | 3N133 | 2023 | 4-3033 | 1104 |
| 2SCS469E | 2013 | 2SD198(R) | 2041 | 2SK30A | 2035 | 2T73R | 2001 | 3ES1 | 1104 | 3N134 | 2022 | 4-3034 | 1102 |
| 2SCS469G | 2013 | 2SD201 | 2041 | 2SK30A(D) | 2035 | 2T74 | 2001 | 3ES2 | 1104 | 3N136 | 2023 | 4-5145 | 2009 |
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| 2SCS469J | 2013 | 2SD201O | 2041 | 2SK30AO | 2035 | 2T76 | 2001 | 3G2 | 2035 | 3SB629 | 1104 | 4-68689-3 | 1114 |
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| 2SCS469L | 2013 | 2SD211 | 2041 | 2SK30AY | 2035 | 2T77 | 2001 | 3G152 | 1104 | 3SK23 | 2035 | 4-686105-3 | 1114 |
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| 2SCS469Y | 2013 | 2SD227A | 2009 | 2SK30Y | 2035 | 2T82 | 2001 | 3G252 | 1104 | 3SK34 | 2035 | 4-686139-3 | 1114 |
| 2SD11 | 2001 | 2SD227B | 2009 | 2SK31 | 2035 | 2T83 | 2001 | 3G254 | 1104 | 3SK34C | 2035 | 4-686144-3 | 2009 |
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| 2SD18(RECTIFIER) | 1104(2) | 2SD227L | 2009 | 2SK33E | 2035 | 2T89 | 2001 | 3GS1 | 1104 | 3T202 | 2001 | 4-686151-3 | 1104 |
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| 2SD23 | 2001 | 2SD241H | 2041 | 2SK34(E) | 2035 | 2T404 | 2009 | 3L4-2001-1A | 1123 | 3T504 | 1104 | 4-686186-3 | 1114 |
| 2SD25 | 2001 | 2SD247 | 2041 | 2SK34B | 2035 | 2T501 | 1104 | 3L4-2001-3 | 1102 | 3T505 | 1104 | 4-686189-3 | 1114 |
| 2SD26 | 2039 | 2SD256 | 2020 | 2SK34C | 2035 | 2T502 | 1104 | 3L4-2001-4 | 1102 | 3T506 | 1104 | 4-686199-3 | 1114 |
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| 2SD43 | 2001 | 2SD341 | 2041 | 2SK40(C) | 2035 | 2T520 | 2001 | 3L4-3002-10 | 1102 | 3X11/1 | 1104 | 4-202003571 | 1123 |
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| 2SD44 | 2001 | 2SD428 | 2041 | 2SK41D | 2035 | 2T522 | 2001 | 3L4-3002-31 | 1102 | 4-0563 | 2009 | 4-202104970 | 1102 |
| 2SD50 | 2041 | 2SD492 | 2041 | 2SK41E | 2035 | 2T523 | 2001 | 3L4-3002-32 | 1102 | 4-12-1A7-1 | 2009 | 4-2020035000 | 1123 |
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| 2SD53 | 2041 | 2SD523 | 2042 | 2SK42 | 2035 | 2T551 | 2001 | 3L4-5007-3 | 2009 | 4-50 | 1104 | 4AJ4DX520 | 1104 |
| 2SD63 | 2001 | 2SD639 | 2010 | 2SK42-CM1 | 2035 | 2T552 | 2001 | 3L4-6001-01 | 2041 | 4-50(SEARS) | 1104 | 4C28 | 2013 |
| 2SD64 | 2001 | 2SD735 | 2001 | 2SK42-CMI | 2036 | 2T650 | 2001 | 3L4-6007-02 | 2009 | 4-65-4A7-1 | 2001 | 4C29 | 2014 |
| 2SD65 | 2001 | 2SD829 | 2011 | 2SK42CM1 | 2035 | 2T681 | 2001 | 3L4-6007-03 | 2009 | 4-74-3A7-1 | 2007 | 4C30 | 2013 |
| 2SD66 | 2001 | 2SD-F1 | 2001 | 2SK43 | 2036 | 2T682 | 2001 | 3L4-6007-04 | 2009 | 4-88C17-1 | 2007 | 4C31 | 2013 |
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| 2SD75 | 2001 | 2SJ2A | 1104 | 2SK44C | 2035 | 2T2708 | 2009 | 3L4-6007-1 | 2009 | 4-282 | 1123 | 4D6 | 1104 |
| 2SD75(A) | 2001 | 2SJ4A | 1104 | 2SK44D | 2035 | 2T2785 | 2009 | 3L4-6007-2 | 2009 | 4-850 | 2011 | 4D8 | 1104 |
| 2SD75(B) | 2001 | 2SJ8A | 1114 | 2SK47 | 2035 | 2T2857 | 2009 | 3L4-6007-3 | 2009 | 4-851 | 2009 | 4D20 | 2013 |
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| 2SD119A | 2041 | 2SK12-R | 2035 | 2SK55 | 2036 | 2V467 | 2007 | 3L4-6015-01 | 2009 | 4-1807 | 1104 | 4JA2X355 | 1104 |
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| 2SD119C | 2041 | 2SK13 | 2035 | 2SK55DE | 2036 | 2V483 | 2007 | 3L46007-2 | 2009 | 4-2020-03173 | 1104 | 4JA4DX520 | 1104 |
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| 2SD130-YEL | 2020 | 2SK15-O | 2035 | 2SK55R | 2036 | 2V486 | 2007 | 3MS10 | 1104 | 4-2020-03571 | 1123 | 4JA10DX3 | 1104 |
| 2SD131 | 2041 | 2SK15-R | 2035 | 2SK61 | 2035 | 2V631 | 2007 | 3MS30 | 1104 | 4-2020-03600 | 1104 | 4JA10DX32 | 1104 |
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| 2SD147 | 2041 | 2SK17(O) | 2035 | 2SK68AM | 2035 | 2W3A | 1104 | 3N22 | 2001 | 4-2020-05800 | 1102 | 4JA211A | 1104 |
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| | | 2SK17GR | 2035 | 2SK170R | 2035 | 2W9A | 1114 | | | | | | |
| | | | | | | 2X9A116 | 1104 | | | | | | |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
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| 4JX1E850 | 2001 | 5A10C | 1114 | 6RW62HY | 1104 | 8-723-650 | 2001 | 8D6 | 1104 | 10C05 | 1104 | 11-0774 | 2009 |
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| 4JX2A816 | 2001 | 5B-2 | 1104 | 7-0002 | 1104 | 8-905-013-752 | 1104 | 8GA | 1114 | 10C3 | 1104 | 11-085003 | 1104 |
| 4JX2A822 | 2001 | 5B2 | 1104 | 7-0004 | 1104 | 8-905-013-759 | 1104 | 8Q-3-12 | 2031 | 10C4 | 1104 | 11-085004 | 1123 |
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| 4JX16A567 | 2009 | 5B3 | 1104 | 7-0006 | 1123 | 8-905-014-017 | 2009 | 8Q-7-02 | 1104 | 10C5 | 1104 | 11-085007 | 1123 |
| 4JX16A569 | 2001 | 5B-15H | 1104 | 7-0008 | 1104 | 8-905-198-001 | 1104 | 8Q-7-03 | 1104 | 10C6 | 1104 | 11-085008 | 1123 |
| 4JX16A667 | 2009 | 5D1 | 1104 | 7-0013 | 1102 | 8-905-198-004 | 1104 | 8.75VZENER | 562 | 10C8 | 1114 | 11-085010 | 2009 |
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| 4JX16A667Y | 2009 | 5E4 | 1104 | 7-5(SARKES) | 2009 | 8-905-305-055 | 1123 | 9-5216 | 2009 | 10D | 1104 | 11-9-156438 | 1122 |
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| 4JX16A6680 | 2009 | 5GL | 1104 | 7-17 | 2009 | 8-905-305-580 | 1123 | 9D14 | 1102 | 10D5B | 1104 | 11J2F | 1104 |
| 4JX16B670/B | 2030 | 5H | 1104 | 7-17(SARKES) | 2009 | 8-905-305-635 | 1123 | 9D15 | 562 | 10D5C | 1104 | 12/1N10 | 1102(2) |
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| 4JX2825 | 2001 | 5MF1 | 1104 | 7-45 | 2011 | 8-905-405-105 | 1114 | 9TR2 | 2009 | 10DC05R | 1104 | 12-087004 | 1102 |
| 4JZ4X539 | 563 | 5MS5 | 1104 | 7-59-0013477 | 1123 | 8-905-405-134 | 1104 | 9TR7 | 2009 | 10DC0B | 1104 | 12-1-70 | 2009 |
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| 5-3/830136.T | 1114 | 6-0452 | 2009 | 7D210A | 1114 | 8-905-705-403 | 2009 | 10-2SC380 | 2011 | 10DC-4R | 1104 | 12-1-128 | 2007 |
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| ASY88 | 2001 | AZ-15 | 564 | B3C5 | 1104 | B88C-1-21 | 2007 | B170006 | 2041 | BB2A184 | 1104 | BC172 | 2009 |
| ASY89 | 2001 | AZ15 | 564 | B3C9 | 1104 | B92-1-A-21 | 2001 | B170007 | 2041 | BB-6S | 1104 | BC172A | 2009 |
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| AT-10 | 2041 | AZ753A | 561 | B3D5 | 1104 | B104 | 2007 | B170010 | 2039 | BB107 | 1104 | BC172C | 2009 |
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| AT16 | 2016 | AZ757A | 562 | B3E1 | 1104 | B200C40 | 1104 | B170012 | 2041 | BB117 | 1104 | BC173B | 2016 |
| AT17 | 2016 | AZ759 | 563 | B3E5 | 1104 | B250C7K4S | 1104 | B170013 | 2041 | BB127 | 1104 | BC173C | 2016 |
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| AT53 | 2001 | AZ960 | 562 | B3F1 | 1104 | B250C75K4 | 1104 | B170015 | 2041 | BC-71 | 2009 | BC178V | 2034 |
| AT71 | 2001 | AZ960A | 562 | B3F5 | 1104 | B250C75K5 | 1104 | B170016 | 2041 | BC71 | 2009 | BC178VI | 2034 |
| AT72 | 2001 | AZ960B | 562 | B3F9 | 1104 | B250C75K41 | 1104 | B170018 | 2039 | BC-107 | 2009 | BC180 | 2009 |
| AT73R | 2001 | AZ963 | 563 | B3G1 | 1104 | B250C75K45 | 1104 | B170019 | 2039 | BC107 | 2009 | BC180B | 2009 |
| AT75R | 2001 | AZ963A | 563 | B3G5 | 1104 | B250C100 | 1104 | B170020 | 2041 | BC107A | 2009 | BC181 | 2034 |
| AT76R | 2001 | AZ963B | 563 | B3G9 | 1104 | B250C100TD | 1104 | B170021 | 2041 | BC107A | 2009 | BC182 | 2009 |
| AT77 | 2001 | AZ964 | 563 | B3H1 | 1114 | B250C125 | 1104 | B170022 | 2041 | BC107B | 2009 | BC182A | 2009 |
| AT310 | 2011 | AZ964A | 563 | B3H5 | 1114 | B250C125K4 | 1104 | B170023 | 2041 | BC-108 | 2009 | BC182L | 2009 |
| AT311 | 2011 | AZ964B | 563 | B3H9 | 1114 | B250C125N2 | 1104 | B170024 | 2041 | BC108 | 2009 | BC183 | 2009 |
| AT312 | 2011 | AZ965 | 564 | B3K5 | 1114 | B250C125X4 | 1104 | B170025 | 2041 | BC108A | 2009 | BC183A | 2009 |
| AT313 | 2011 | AZ965A | 564 | B3K9 | 1114 | B250C150 | 1104 | B-722246-2 | 2009 | BC-108B | 2009 | BC183B | 2009 |
| AT314 | 2011 | AZ965B | 564 | B3M1 | 1114 | B250C150K4 | 1104 | B8780010 | 2009 | BC108B | 2009 | BC183L | 2009 |
| AT315 | 2011 | AZG | 2011 | B3M5 | 1114 | B290 | 2007 | BA67 | 2009 | BC108C | 2009 | BC184 | 2009 |
| AT316 | 2011 | AZY | 2011 | B3M9 | 1114 | B291 | 2007 | BA71 | 2009 | BC109 | 2009 | BC184B | 2016 |
| AT318 | 2011 | A.184/5 | 2009 | B-3P | 1123 | B292 | 2007 | BA-100 | 1104 | BC-109B | 2009 | BC184L | 2009 |
| AT319 | 2011 | B01-02 | 1104 | B4 | 2016 | B292A | 2007 | BA100 | 1104 | BC109BP | 2009 | BC185 | 2009 |
| AT321 | 2011 | B090 | 562 | B4A1 | 1104 | B294 | 1104 | BA-104 | 1104 | BC109C | 2009 | BC186 | 2034 |
| AT322 | 2011 | B1A1 | 1104 | B4A5 | 1104 | B294(RECTIFIER) | 1104 | BA104 | 1104 | BC110 | 2009 | BC188 | 2011 |
| AT323 | 2011 | B1A5 | 1104 | B4A9 | 1104 | B314 | 2007 | BA105 | 1104 | BC112 | 2016 | BC189 | 2011 |
| AT324 | 2011 | B1A9 | 1104 | B4B1 | 1104 | B387 | 2007 | BA108 | 1104 | BC113 | 2009 | BC194 | 2009 |
| AT325 | 2011 | B1B | 1104 | B4B5 | 1104 | B392 | 2007 | BA114 | 1102 | BC-114 | 2009 | BC196VI | 2034 |
| AT326 | 2011 | B1B1 | 1104 | B4B9 | 1104 | B393 | 2007 | BA119 | 1104 | BC114 | 2013 | BC197 | 2009 |
| AT327 | 2011 | B1B5 | 1104 | B4C1 | 1104 | B394 | 2007 | BA120 | 1104 | BC114TR | 2009 | BC197A | 2009 |
| AT328 | 2011 | B1B9 | 1104 | B4C5 | 1104 | B395 | 2007 | BA127 | 1104 | BC115 | 2013 | BC197B | 2009 |
| AT329 | 2009 | B1C1 | 1104 | B4C9 | 1104 | B396 | 2007 | BA128 | 1104 | BC116 | 2023 | BC198 | 2009 |
| AT330 | 2011 | B1C5 | 1104 | B4D1 | 1104 | B401 | 2007 | BA129 | 1104 | BC117 | 2012 | BC198A | 2030 |
| AT335 | 2009 | B1C9 | 1104 | B4D5 | 1104 | B402 | 2007 | BA130 | 1104 | BC118 | 2009 | BC199 | 2009 |
| AT336 | 2009 | B1D1 | 1104 | B4D9 | 1104 | B403 | 2007 | BA-142-01 | 1104 | BC119 | 2012 | BC200 | 2022 |
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| AT347 | 2009 | B1E5 | 1104 | B4E9 | 1104 | B417 | 2007 | BA148 | 1104 | BC121 | 2011 | BC202 | 2034 |
| AT348 | 2009 | B1E9 | 1104 | B4F1 | 1104 | B539R | 2009 | BA153 | 1104 | BC-122 | 2009 | BC205 | 2034 |
| AT349 | 2009 | B1F1 | 1104 | B4F5 | 1104 | B601-1011 | 1123 | BA167 | 1102 | BC122 | 2011 | BC205V | 2034 |
| AT370 | 2009 | B1F5 | 1104 | B4F9 | 1104 | B601-1012 | 1104 | BA168 | 1102 | BC-123 | 2009 | BC205VI | 2034 |
| AT400 | 2009 | B1G1 | 1104 | B4G1 | 1104 | B614-007-0 | 1123 | BA170 | 1102 | BC123 | 2011 | BC-207 | 1104 |
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| AT402 | 2009 | B1G9 | 1104 | B4G9 | 1104 | B-1338 | 2009 | BA182 | 1102 | BC125A | 2009 | BC207A | 2009 |
| AT403 | 2009 | B1H(DIODE) | 1104 | B5A1 | 1104 | B-1421 | 2009 | BA187 | 1102 | BC125B | 2016 | BC207B | 2009 |
| AT404 | 2009 | B1H1 | 1114 | B5A5 | 1104 | B-1433 | 2009 | BA202 | 1122 | BC126 | 2023 | BC207BL | 2009 |
| AT405 | 2009 | B1H5 | 1114 | B5A9 | 1104 | B-1501U | 1104 | BACSH2M1 | 2009 | BC126A | 2023 | BC208 | 2009 |
| AT406 | 2009 | B1H9 | 1114 | B5B1 | 1104 | B-1599 | 1102 | BACSH2M2 | 2009 | BC129 | 2009 | BC208A | 2009 |
| AT407 | 2009 | B1K | 2009 | B5B5 | 1104 | B-1666 | 1102 | BACSH2M3 | 2009 | BC130 | 2009 | BC208AL | 2009 |
| AT420 | 2009 | B1K1 | 1114 | B5B9 | 1104 | B-1702 | 1102 | BACT2F | 2009 | BC131 | 2009 | BC208B | 2009 |
| AT421 | 2009 | B1K5 | 1114 | B5C1 | 1104 | B-1842 | 2009 | BAW10TF20 | 1102 | BC132 | 2013 | BC208BL | 2009 |
| AT422 | 2009 | B1K9 | 1114 | B5C5 | 1104 | B-1872 | 2009 | BAW11TF21 | 1102 | BC134 | 2009 | BC208C | 2009 |
| AT423 | 2009 | B1M1 | 1114 | B5C9 | 1104 | B-1881U | 1104 | BAW12TF22 | 1102 | BC135 | 2009 | BC208CL | 2009 |
| AT424 | 2009 | B1M5 | 1114 | B5D1 | 1104 | B-1882U | 1104(2) | BAW13TF23 | 1102 | BC136 | 2009 | BC209 | 2009 |
| AT425 | 2009 | B1M9 | 1114 | B5D5 | 1104 | B2090 | 562 | BAW16 | 1102 | BC144 | 2012 | BC209A | 2009 |
| AT426 | 2009 | B1N | 2009 | B5D9 | 1104 | B5020 | 2041 | BAW17 | 1102 | BC145 | 2012 | BC209B | 2009 |
| AT427 | 2009 | B1P9 | 1104 | B5E1 | 1104 | B-6001 | 2035 | BAW18 | 1102 | BC146 | 2009 | BC209BL | 2009 |
| AT490 | 2009 | B1P7201 | 2009 | B5E5 | 1104 | B-6002 | 564 | BAW24 | 1102 | BC146R | 2016 | BC209C | 2009 |
| AT491 | 2009 | B1R | 2009 | B5E9 | 1104 | B-12822-2 | 2041 | BAW24A | 1102 | BC147 | 2009 | BC209CL | 2009 |
| AT492 | 2009 | B2 | 2015 | B5F1 | 1104 | B17307 | 2041 | BAW24B | 1102 | BC147A | 2009 | BC210 | 2009 |
| AT493 | 2009 | B2A1 | 1104 | B5F9 | 1104 | B36564 | 1104 | BAW25 | 1102 | BC147B | 2009 | BC220 | 2009 |
| AT494 | 2009 | B2A9 | 1104 | B5G1 | 1104 | B-75568-2 | 2011 | BAW25A | 1102 | BC148 | 2009 | BC221 | 2023 |
| AT495 | 2009 | B2B1 | 1104 | B5G5 | 1104 | B-75583-1 | 2009 | BAW25B | 1102 | BC-148A | 2009 | BC222 | 2033 |
| AT521 | 2001 | B2B5 | 1104 | B5G9 | 1104 | B-75583-2 | 2009 | BAW45 | 1102 | BC148A | 2009 | BC223A | 2033 |
| AT551 | 2001 | B2B9 | 1104 | B5H1 | 1114 | B-75583-202 | 2009 | BAW53 | 1102 | BC-148B | 2009 | BC223B | 2009 |
| AT-1856 | 2041 | B2C1 | 1104 | B5H5 | 1114 | B-75589-3 | 2009 | BAW59 | 1102 | BC148B | 2009 | BC224 | 2022 |
| AT1856 | 2041 | B2C5 | 1104 | B5H9 | 1114 | B-75589-13 | 2009 | BAW59A | 1102 | BC-148C | 2009 | BC225 | 2034 |
| AT3260 | 2041 | B2C9 | 1104 | B5K1 | 1114 | B-75608-3 | 2009 | BAW59B | 1102 | BC148C | 2009 | BC232A | 2038 |
| ATC-TR-15 | 2041 | B2D | 2009 | B5K5 | 1114 | B133550 | 2041 | BAW63A | 1102 | BC149 | 2009 | BC232B | 2030 |
| AU2012 | 563 | B2D1 | 1104 | B5K9 | 1114 | B133577 | 2041 | BAW63B | 1102 | BC149A | 2009 | BC232M | 2038 |
| AV0000105-0 | 1102 | B2D5 | 1104 | B5M1 | 1114 | B133578 | 2009 | BAW99 | 1102 | BC149B | 2009 | BC233A | 2009 |
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| AV2012 | 563 | B2E1 | 1104 | B5M9 | 1114 | B133685 | 2041 | BAX-13 | 1122 | BC149G | 2009 | BC237 | 2009 |
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| AV2015 | 564 | B2E9 | 1104 | B12-1A21 | 2009 | B170000-BLK | 2039 | BAX-16 | 1102 | BC151 | 2009 | BC237B | 2009 |
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| AW-01-06 | 561 | B2F5 | 1104 | B28 | 1123 | B170000-ORG | 2039 | BAX28 | 1102 | BC153 | 2022 | BC238A | 2009 |
| AW-01-07 | 562 | B2F9 | 1104 | B-30 | 1123 | B170000-RED | 2039 | BAX30 | 1102 | BC155 | 2011 | BC238B | 2009 |
| AW-01-09 | 562 | B2G1 | 1104 | B30 | 1123 | B170000-YEL | 2039 | BAX74 | 1102 | BC155A | 2031 | BC239 | 2009 |
| AW01-09 | 562 | B2G5 | 1104 | B30C50KP | 1114 | B170000BLK | 2041 | BAX87 | 1102 | BC155B | 2009 | BC250A | 2034 |
| AW01-9 | 562 | B2G9 | 1104 | B30C250 | 1104 | B170000BRN | 2041 | BAX87A | 1102 | BC156 | 2011 | BC253A | 2034 |
| AW01-9/CP3112030 | 562 | B2H1 | 1114 | B30C250-1 | 1104 | B170001 | 2041 | BAX88TF11 | 1102 | BC156A | 2031 | BC253B | 2034 |
| AW-01-12 | 1104 | B2H5 | 1114 | B30C250KP | 1114 | B170001-BLK | 2039 | BAX89A | 1102 | BC156B | 2009 | BC255 | 2008 |
| AW01-12 | 563 | B2H9 | 1114 | B30C350-1 | 1104 | B170001-ORG | 2039 | BAX91C/TF102 | 1122 | BC158VI | 2034 | BC258VI | 2034 |
| AW-01-12C | 563 | B2K1 | 1114 | B30C500 | 1104 | B170001-RED | 2039 | BAX95TF600 | 1122 | BC-167 | 2009 | BC260A | 2034 |
| AW01-12C | 563 | B2K5 | 1114 | B30C600 | 1104 | B170001-YEL | 2039 | BAY17 | 1102 | BC-167-B | 2009 | BC263A | 2034 |
| AW01-12V | 563 | B2K9 | 1114 | B30C600CB | 1104 | B170001BLK | 2041 | BAY18 | 1102 | BC167A | 2010 | BC263B | 2034 |
| AW01-13 | 563 | B2M1 | 1114 | B30C1000 | 1104 | B170001BRN | 2041 | BAY19 | 1102 | BC167B | 2009 | BC267 | 2009 |
| AW01-15 | 564 | B2M5 | 1114 | B-30P | 1123 | B170002 | 2041 | BAY20 | 1102 | BC168 | 2009 | BC268 | 2009 |
| AW09 | 563 | B2M9 | 1114 | B-31 | 1104 | B170002-BLK | 2041 | BAY31 | 1102 | BC168A | 2009 | BC269 | 2009 |
| AWH-24 | 2009 | B2Z | 2030 | B31 | 1104 | B170002-BRN | 2041 | BAY36 | 1102 | BC168B | 2009 | BC280 | 2009 |
| AWOL-13 | 563 | B3 | 2016 | B31(RECTIFIER) | 1104 | B170002-ORG | 2041 | BAY41 | 1102 | BC168C | 2009 | BC280A | 2016 |
| AX12 | 563 | B3A1 | 1104 | B35C600 | 1104 | B170002-RED | 2041 | BAY41A | 1102 | BC169 | 2009 | BC280B | 2013 |
| AZ-058 | 561 | B3A5 | 1104 | B-46-110 | 1102(2) | B170003 | 2041 | BAY41B | 1102 | BC-169-C | 2031 | BC280C | 2013 |
| AZ-061 | 561 | B3A9 | 1104 | B65-4-A-21 | 2001 | B170003-BLK | 2041 | BAY44 | 1104 | BC169B | 2009 | BC282 | 2009 |
| AZ-063 | 561 | B3B1 | 1104 | B65-4A21 | 2001 | B170003-BRN | 2041 | BAY52 | 1102 | BC169B | 2009 | BC283 | 2023 |
| AZ-085 | 562 |  |  | B-66 | 2030 | B170004 | 2041 | BAY64 | 1104 | BC169C | 2009 | BC284 | 2009 |
| AZ-088 | 562 |  |  | B66X0040-001 | 563 | B170004-BLK | 2041 | BAY68 | 1102 | BC169CL | 2009 | BC284A | 2009 |
| AZ-090 | 562 |  |  | B66X0040-003 | 562 | B170004-BRN | 2041 | BAY73 | 1102 | BC170A | 2016 | BC284B | 2009 |
| AZ-092 | 562 |  |  | B66X0040-006 | 2041 |  |  | BAY86 | 1104 |  |  |  |  |
| AZ6.2 | 561 |  |  |  |  |  |  |  |  |  |  |  |  |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BC285 | 2009 | BCY36 | 2009 | BF200 | 2015 | BF459 | 2012 | BFV81B | 2034 | BFY76 | 2009 | BSW39 | 2009 |
| BC289 | 2009 | BCY38 | 2023 | BF200(ZENITH) | 2011 | BF494 | 2016 | BFV82 | 2034 | BFY77 | 2009 | BSW41 | 2033 |
| BC289A | 2009 | BCY40 | 2023 | BF-214 | 2009 | BF495 | 2016 | BFV82A | 2034 | BFY78 | 2038 | BSW42 | 2009 |
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| BC290 | 2009 | BCY43 | 2016 | BF216 | 2011 | BF594 | 2016 | BFV82C | 2034 | BFY80 | 2012 | BSW43 | 2009 |
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| BC290C | 2009 | BCY50 | 2009 | BF218 | 2011 | BF596 | 2016 | BFV83A | 2016 | BFY86 | 2012 | BSW51 | 2009 |
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| BC-307 | 1104 | BCY56 | 2009 | BF220 | 2011 | BF26235-5 | 1104 | BFV83C | 2016 | BFY87A | 2031 | BSW53 | 2009 |
| BC308(ALGG) | 2034 | BCY57 | 2009 | BF224 | 2016 | BFR10 | 2038 | BFV85 | 2009 | BFY88 | 2038 | BSW58 | 2009 |
| BC308VI | 2034 | BCY-58 | 2009 | BF224J | 2016 | BFR11 | 2009 | BFV85A | 2009 | BFY90 | 2015 | BSW59 | 2009 |
| BC309A | 2034 | BCY58 | 2009 | BF225 | 2016 | BFR18 | 2012 | BFV85B | 2009 | BFY90(SIEG) | 2015 | BSW82 | 2009 |
| BC317 | 2009 | BCY58B | 2009 | BF225J | 2016 | BFR19 | 2012 | BFV85C | 2009 | BFY90B | 2011 | BSW84 | 2009 |
| BC317A | 2009 | BCY58C | 2009 | BF-226 | 2009 | BFR20 | 2012 | BFV85D | 2013 | BFY371 | 2009 | BSW85 | 2009 |
| BC317B | 2009 | BCY58D | 2009 | BF228 | 2012 | BFR21 | 2008 | BFV85E | 2013 | BFY391 | 2009 | BSW88 | 2016 |
| BC318 | 2016 | BCY59 | 2009 | BF229 | 2016 | BFR25 | 2013 | BFV86 | 2023 | BG-66 | 2030 | BSW88A | 2016 |
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| BC318B | 2009 | BCY59B | 2009 | BF233-2 | 2016 | BFR28 | 2015 | BFV87 | 2009 | BG-94 | 2010 | BSW89 | 2016 |
| BC318C | 2009 | BCY59C | 2009 | BF233-3 | 2016 | BFR36 | 2012 | BFV87A | 2009 | BH4R1 | 1104 | BSW89A | 2016 |
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| BC319B | 2009 | BCY69 | 2009 | BF235 | 2016 | BFR58 | 2012 | BFV88 | 2009 | BI71 | 2009 | BSW92 | 2009 |
| BC319C | 2009 | BCY70 | 2023 | BF237 | 2013 | BFR59 | 2012 | BFV88A | 2009 | BI-82 | 2032 | BSX19 | 2009 |
| BC394 | 2008 | BCY72 | 2034 | BF238 | 2013 | BFS11 | 2038 | BFV88B | 2009 | BIP7201 | 2009 | BSX20 | 2009 |
| BC408 | 2016 | BCY84A | 2009 | BF240 | 2016 | BFS13E | 2013 | BFV88C | 2016 | BLX88 | 2038 | BSX24 | 2016 |
| BC409 | 2009 | BCY87 | 2013 | BF240B | 2016 | BFS13F | 2013 | BFV89 | 2016 | BLY10 | 2041 | BSX25 | 2016 |
| BC418 | 2034 | BCY88 | 2013 | BF241 | 2016 | BFS13G | 2013 | BFW19 | 2038 | BLY11 | 2041 | BSX26 | 2038 |
| BC429 | 2010 | BCY89 | 2013 | BF241C | 2016 | BFS14E | 2022 | BFW29 | 2038 | BLY12 | 2041 | BSX27 | 2038 |
| BC442 | 2011 | BCY90 | 2022 | BF241D | 2016 | BFS14F | 2022 | BFW32 | 2009 | BLY15 | 2041 | BSX28 | 2038 |
| BC456 | 2013 | BCY90B | 2023 | BF245A | 2036 | BFS14G | 2022 | BFW33 | 2012 | BLY47 | 2041 | BSX30 | 2038 |
| BC478 | 2034 | BCY91 | 2022 | BF248 | 2009 | BFS15E | 2013 | BFW41 | 2038 | BLY48 | 2041 | BSX36 | 2023 |
| BC478A | 2034 | BCY91B | 2023 | BF249 | 2023 | BFS15F | 2013 | BFW42 | 2038 | BN7133 | 2041 | BSX38 | 2016 |
| BC478B | 2034 | BCY92 | 2022 | BF250 | 2009 | BFS15G | 2013 | BFW46 | 2009 | BN7214 | 2041 | BSX38A | 2016 |
| BC507A | 2009 | BCZ13 | 2022 | BF253 | 2011 | BFS16E | 2022 | BFW59 | 2009 | BN7517 | 2009 | BSX38B | 2010 |
| BC507B | 2009 | BCZ14 | 2022 | BF254 | 2016 | BFS16F | 2022 | BFW60 | 2009 | BN7518 | 2009 | BSX39 | 2038 |
| BC508A | 2016 | BD0A | 1104 | BF254(ALGG) | 2016 | BFS16G | 2022 | BFW63 | 2038 | BN7551 | 563 | BSX44 | 2038 |
| BC508B | 2009 | BD-1A | 1104 | BF254(PHIN) | 2016 | BFS17R | 2011 | BFW64 | 2038 | BP67 | 2009 | BSX48 | 2009 |
| BC508C | 2009 | BD3A-184 | 1104 | BF254(SIEG) | 2016 | BFS18 | 2015 | BFW68 | 2016 | BPS-S-50 | 1122 | BSX49 | 2009 |
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| BC510C | 2011 | BD112 | 2041 | BF255(ALGG) | 2016 | BFS19R | 2016 | BFX18 | 2016 | BR46 | 1104 | BSX52A | 2009 |
| BC513 | 2034 | BD113 | 2041 | BF255(PHIN) | 2016 | BFS20 | 2016 | BFX19 | 2016 | BR47 | 1104 | BSX53 | 2016 |
| BC513A | 2034 | BD116 | 2041 | BF255(SIEG) | 2016 | BFS20R | 2015 | BFX20 | 2016 | BR48 | 1104 | BSX54 | 2016 |
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| BC546 | 2009 | BD118 | 2041 | BF255D | 2015 | BFS26F | 2022 | BFX31 | 2038 | BR67 | 2009 | BSX67 | 2016 |
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| BC547B | 2009 | BD-127 | 1104 | BF261 | 2038 | BFS27E | 2031 | BFX43 | 2016 | BR51401-2 | 1104 | BSX69 | 2016 |
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| BC548VI | 2038 | BD142 | 2041 | BF263 | 2015 | BFS27G | 2031 | BFX45 | 2016 | BRN-SPEC-24-12 | 1122 | BSX71 | 2009 |
| BC583 | 2009 | BD145 | 2041 | BF264 | 2015 | BFS31P | 2016 | BFX59 | 2038 | BS-1 | 1104 | BSX75 | 2009 |
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| BC-1096 | 2009 | BD245 | 2041 | BF288 | 2016 | BFS38 | 2009 | BFX73 | 2038 | BS475 | 2009 | BSX79 | 2016 |
| BC1096 | 2009 | BD245A | 2041 | BF291 | 2016 | BFS38A | 2033 | BFX74 | 2030 | BS9011G | 2009 | BSX79A | 2010 |
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| BC-1690 | 2009 | BDY17 | 2041 | BF291B | 2016 | BFS40A | 2023 | BFX92 | 2013 | BSA02 | 1102 | BSX80 | 2033 |
| BCF5 | 1104 | BDY23 | 2041 | BF292 | 2012 | BFS42 | 2009 | BFX93 | 2013 | BSA11 | 1102 | BSX81 | 2016 |
| BCM1002-2 | 2011 | BDY38 | 2041 | BF293 | 2009 | BFS42A | 2009 | BFX94 | 2009 | BSS10 | 2033 | BSX81A | 2016 |
| BCW29 | 2034 | BDY39 | 2041 | BF293A | 2009 | BFS42B | 2009 | BFX95A | 2038 | BSS19 | 2012 | BSX81B | 2010 |
| BCW29R | 2034 | BDY53 | 2041 | BF293D | 2009 | BFS42C | 2009 | BFX96A | 2038 | BSS20 | 2016 | BSX87 | 2016 |
| BCW31 | 2016 | BE6 | 2007 | BF302 | 2038 | BFS43 | 2009 | BFX97A | 2038 | BSS21 | 2016 | BSX87A | 2038 |
| BCW31R | 2016 | BE6A | 2007 | BF304 | 2038 | BFS43A | 2009 | BFX98 | 2012 | BSS22 | 2034 | BSX88 | 2016 |
| BCW34 | 2009 | BE-66 | 2030 | BF306 | 2016 | BFS43B | 2009 | BFY | 2009 | BSS26 | 2016 | BSX88A | 2016 |
| BCW36 | 2009 | BE107 | 1104 | BF310 | 2016 | BFS43C | 2009 | BFY10 | 2013 | BSV21 | 2034 | BSX89 | 2033 |
| BCW48A | 2030 | BE117 | 1104 | BF310(ALGG) | 2038 | BFS55A | 2013 | BFY17 | 2038 | BSV35 | 2009 | BSX90 | 2016 |
| BCW50 | 2012 | BE127 | 1104 | BF311 | 2011 | BFS69 | 2034 | BFY18 | 2016 | BSV35A | 2033 | BSX91 | 2016 |
| BCW60A | 2009 | BE173 | 2011 | BF314 | 2016 | BFS99 | 2012 | BFY19 | 2016 | BSV40 | 2016 | BSX92 | 2038 |
| BCW60AA | 2009 | BF71 | 2009 | BF314(ALGG) | 2016 | BFT55 | 2016 | BFY-22 | 2009 | BSV41 | 2009 | BSX93 | 2038 |
| BCW60AB | 2010 | BF115 | 2016 | BF321A | 2009 | BFV10 | 2009 | BFY22 | 2031 | BSV52 | 2015 | BSX94A | 2009 |
| BCW60AC | 2010 | BF120 | 2012 | BF321B | 2009 | BFV11 | 2009 | BFY-23 | 2009 | BSV52R | 2015 | BSX97 | 2009 |
| BCW60B | 2010 | BF121 | 2016 | BF321C | 2009 | BFV12 | 2009 | BFY23 | 2031 | BSV53 | 2016 | BSY10 | 2009 |
| BCW60C | 2010 | BF123 | 2013 | BF321D | 2009 | BFV20 | 2023 | BFY-23A | 2009 | BSV53P | 2015 | BSY11 | 2009 |
| BCW65EA | 2014 | BF125 | 2016 | BF321E | 2009 | BFV27 | 2011 | BFY23A | 2009 | BSV54 | 2016 | BSY17 | 2009 |
| BCW65EB | 2009 | BF127 | 2013 | BF321F | 2009 | BFV28 | 2011 | BFY-24 | 2009 | BSV54P | 2011 | BSY18 | 2009 |
| BCW83 | 2009 | BF137 | 2012 | BF324 | 2034 | BFV29 | 2034 | BFY24 | 2031 | BSV55 | 2034 | BSY19 | 2016 |
| BCW94 | 2009 | BF152 | 2038 | BF329 | 2038 | BFV30 | 2034 | BFY25 | 2009 | BSV55A | 2034 | BSY20 | 2009 |
| BCW94A | 2009 | BF153 | 2011 | BF332 | 2016 | BFV31 | 2034 | BFY26 | 2016 | BSV55AP | 2021 | BSY21 | 2033 |
| BCW94B | 2009 | BF154 | 2016 | BF333 | 2016 | BFV32 | 2034 | BFY28 | 2009 | BSV55P | 2034 | BSY24 | 2030 |
| BCW94C | 2009 | BF158 | 2038 | BF333C | 2011 | BFV33 | 2034 | BFY-29 | 2009 | BSV59 | 2016 | BSY25 | 2030 |
| BCW94KA | 2009 | BF159 | 2038 | BF333D | 2011 | BFV34 | 2034 | BFY29 | 2013 | BSV65FA | 2016 | BSY26 | 2016 |
| BCW94KB | 2009 | BF160 | 2038 | BF334 | 2016 | BFV35 | 2034 | BFY-30 | 2009 | BSV65FB | 2016 | BSY27 | 2016 |
| BCW94KC | 2009 | BF165 | 2016 | BF335 | 2016 | BFV36 | 2034 | BFY30 | 2013 | BSV77 | 2038 | BSY28 | 2016 |
| BCX19 | 2010 | BF166 | 2016 | BF340 | 2034 | BFV37 | 2016 | BFY33 | 2009 | BSV84 | 2009 | BSY29 | 2016 |
| BCX19R | 2010 | BF167 | 2016 | BF341 | 2034 | BFV40 | 2016 | BFY37 | 2016 | BSV86 | 2009 | BSY34 | 2009 |
| BCX20 | 2033 | BF174 | 2008 | BF342 | 2034 | BFV41 | 2016 | BFY-39 | 2009 | BSV87 | 2009 | BSY38 | 2016 |
| BCX20R | 2033 | BF175 | 2016 | BF343 | 2034 | BFV42 | 2016 | BFY39 | 2016 | BSV88 | 2033 | BSY39 | 2016 |
| BCX58VII | 2038 | BF176 | 2016 | BF344 | 2016 | BFV43 | 2016 | BFY39/1 | 2009 | BSV89 | 2016 | BSY40 | 2034 |
| BCX58VIII | 2030 | BF-180 | 2030 | BF345 | 2016 | BFV44 | 2016 | BFY39/2 | 2009 | BSV90 | 2016 | BSY41 | 2034 |
| BCX70AG | 2010 | BF180 | 2015 | BF355 | 2012 | BFV45 | 2016 | BFY39/3 | 2009 | BSV91 | 2016 | BSY44 | 2038 |
| BCX70AH | 2010 | BF181 | 2015 | BF357 | 2031 | BFV46 | 2016 | BFY39-1 | 2016 | BSV92 | 2016 | BSY45 | 2038 |
| BCX70AJ | 2010 | BF182 | 2015 | BF362 | 2015 | BFV47 | 2016 | BFY47 | 2011 | BSV95 | 2038 | BSY46 | 2038 |
| BCY13 | 2009 | BF183 | 2015 | BF363 | 2015 | BFV49 | 2014 | BFY48 | 2031 | BSV97 | 2023 | BSY48 | 2009 |
| BCY15 | 2009 | BF183A | 2009 | BF364 | 2016 | BFV50 | 2014 | BFY49 | 2013 | BSV98 | 2023 | BSY49 | 2009 |
| BCY16 | 2009 | BF184 | 2016 | BF365 | 2016 | BFV51 | 2009 | BFY56 | 2008 | BSW11 | 2016 | BSY51 | 2030 |
| BCY17 | 2022 | BF185 | 2016 | BF384 | 2038 | BFV53 | 2009 | BFY65 | 2012 | BSW12 | 2016 | BSY58 | 2009 |
| BCY18 | 2022 | BF189 | 2009 | BF385 | 2015 | BFV54 | 2009 | BFY66 | 2015 | BSW19 | 2016 | BSY59 | 2009 |
| BCY19 | 2022 | BF194 | 2016 | BF414 | 2021 | BFV55 | 2009 | BFY69 | 2031 | BSW19A | 2034 | BSY61 | 2016 |
| BCY21 | 2022 | BF194B | 2011 | BF440 | 2034 | BFV59 | 2011 | BFY69A | 2031 | BSW19VI | 2034 | BSY62 | 2016 |
| BCY23 | 2022 | BF195 | 2016 | BF441 | 2034 | BFV60 | 2013 | BFY69B | 2031 | BSW20A | 2034 | BSY62A | 2009 |
| BCY24 | 2022 | BF195C | 2016 | BF450 | 2034 | BFV61 | 2013 | BFY72 | 2038 | BSW20VI | 2034 | BSY63 | 2009 |
| BCY25 | 2022 | BF195D | 2011 | BF451 | 2034 | BFV62 | 2010 | BFY73 | 2009 | BSW24 | 2023 | BSY68 | 2012 |
| BCY26 | 2022 | BF196 | 2016 | BF456 | 2012 | BFV80 | 2011 | BFY74 | 2009 | BSW32 | 2012 | BSY70 | 2016 |
| BCY27 | 2022 | BF197 | 2011 | BF457 | 2012 | BFV81 | 2034 | BFY75 | 2009 | BSW33 | 2016 | BSY72 | 2016 |
| BCY28 | 2022 | BF198 | 2016 | BF458 | 2012 | BFV81A | 2034 | | | BSW34 | 2009 | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSY73 | 2016 | BYX60-300 | 1104 | BZY85C9V1 | 562 | C106Y | 1067 | C287A | 2038 | C387A(TRANSISTOR) | 2015 | C537(G) | 2009 |
| BSY74 | 2016 | BYX60-400 | 1104 | BZY85C12 | 563 | C110 | 2009 | C288 | 2038 | C387G(TRANSISTOR) | 2015 | C537-01 | 2009 |
| BSY75 | 2033 | BYX60-500 | 1104 | BZY85C13 | 563 | C111 | 2009 | C288A | 2038 | C388 | 2010 | C537A | 2009 |
| BSY76 | 2033 | BYX60-600 | 1104 | BZY85C15 | 564 | C111E | 2016 | C300 | 2009 | C388(TRANSISTOR) | 2010 | C537B | 2009 |
| BSY80 | 2009 | BYX60-700 | 1114 | BZY85D12 | 563 | C122 | 2009 | C301 | 2009 | C388A | 2010 | C537C | 2009 |
| BSY89 | 2009 | BYY-31 | 1104 | BZY85D15 | 564 | C128 | 2001 | C302(JAPAN) | 2009 | C388ATV | 2010 | C537D | 2009 |
| BSY91 | 2012 | BYY31 | 1104 | BZY88/6V2 | 561 | C129 | 2001 | C315 | 2009 | C394 | 2009 | C537D2 | 2009 |
| BSY92 | 2030 | BYY-32 | 1104 | BZY88/C6V2 | 561 | C131 | 2009 | C317 | 2009 | C394(TRANSISTOR) | 2013 | C537E | 2009 |
| BSY93 | 2016 | BYY32 | 1104 | BZY88/C9V1 | 562 | C132 | 2009 | C317-0 | 2009 | C394-0 | 2013 | C537EF | 2009 |
| BSY95 | 2016 | BYY33 | 1104 | BZY88/C9V5 | 562 | C133 | 2009 | C317C | 2009 | C394-O | 2013 | C537EH | 2009 |
| BSY95A | 2016 | BYY34 | 1104 | BZY88C9V1 | 562 | C134 | 2009 | C318(JAPAN) | 2009 | C394GR | 2013 | C537EJ | 2009 |
| BSY165 | 2009 | BYY-35 | 1104 | BZY88C12 | 563 | C134B | 2009 | C318A(JAPAN) | 2009 | C394R | 2013 | C537EK | 2009 |
| BSY168 | 2009 | BYY35 | 1104 | BZY88C13 | 563 | C135 | 2009 | C319 | 2009 | C394W | 2013 | C537F | 2009 |
| BT67 | 2009 | BYY36 | 1104 | BZY88C15 | 564 | C136 | 2009 | C320 | 2009 | C394Y | 2013 | C537F1 | 2009 |
| BT71 | 2009 | BYY37 | 1114 | BZY92/C15 | 564 | C137(TRANSISTOR) | 2009 | C321 | 2009 | C395 | 2009 | C537F2 | 2009 |
| B-T-1000-139 | 2011 | BYY89 | 1104 | BZY92C6V2 | 561 | C138(TRANSISTOR) | 2009 | C321H | 2009 | C395A | 2009 | C537FC | 2009 |
| B-T1000-139 | 2011 | BYY91 | 1114 | BZY92C9V1 | 562 | C138A | 2009 | C321HA | 2009 | C395R | 2009 | C537FV | 2009 |
| BTM50 | 1104 | BZ-058 | 561 | BZY92C12 | 563 | C139(TRANSISTOR) | 2009 | C321HB | 2009 | C396 | 2009 | C537G | 2009 |
| BTX068 | 2009 | BZ-061 | 561 | BZY92C15 | 564 | C151 | 2009 | C321HC | 2009 | C400 | 2009 | C537G1 | 2009 |
| BTX-070 | 2009 | BZ-063 | 561 | BZY94/C12 | 563 | C157 | 2009 | C323 | 2009 | C400-0 | 2009 | C537GF | 2009 |
| BTX-094 | 2009 | BZ-080 | 562 | BZY94/C15 | 564 | C158 | 2009 | C324 | 2009 | C400-R | 2009 | C537GI | 2009 |
| BTX-095 | 2009 | BZ-085 | 562 | BZY94C12 | 563 | C159 | 2009 | C324A | 2009 | C400-Y | 2009 | C537H | 2009 |
| BTX-096 | 2009 | BZ-088 | 562 | BZY94C13 | 563 | C160 | 2009 | C324H | 2009 | C401(JAPAN) | 2009 | C537HT | 2009 |
| BTX-2367B | 2009 | BZ-090 | 562 | BZY94C15 | 564 | C166 | 2009 | C324HA | 2009 | C402(JAPAN) | 2009 | C537W | 2009 |
| BTX2367B | 2031 | BZ-090(DIODE) | 1123 | C00-68602300 | 562 | C167 | 2009 | C328A | 2009 | C402A | 2009 | C538 | 2009 |
| BU029 | 1104 | BZ-090(ZENER) | 562 | C1A | 1102(2) | C171 | 2011 | C329 | 2011 | C403 | 2009 | C538A | 2009 |
| BU67 | 2009 | BZ-092 | 562 | C1B | 1104 | C173 | 2001 | C329B | 2011 | C403(C) | 2009 | C538AQ | 2009 |
| BU71 | 2009 | BZ-094 | 562 | C1H | 1104 | C174 | 2011 | C329C | 2011 | C403A | 2009 | C538P | 2009 |
| BUC97704-2 | 2009 | BZ094 | 562 | C1.0E02 | 1114 | C174A | 2011 | C350(TRANSISTOR) | 2009 | C403C | 2009 | C538Q | 2009 |
| BUY10 | 2041 | BZ-0900 | 562 | C2AJ102 | 1104 | C175 | 2001 | C350H | 2009 | C404 | 2009 | C538R | 2009 |
| BUY11 | 2041 | BZ-0901 | 562 | C-10-20A | 1102(2) | C176 | 2001 | C351 | 2009 | C407 | 2012 | C538S | 2009 |
| BV25 | 1104 | BZ1-9 | 562 | C10-20A | 1102(2) | C177 | 2001 | C351(FA) | 2011 | C420 | 2030 | C538T | 2009 |
| BV67 | 2009 | BZ9.1 | 562 | C10-22C | 1102(2) | C178 | 2001 | C352 | 2009 | C423 | 2009 | C539 | 2009 |
| BV71 | 2009 | BZ-12 | 563 | C11S1C1E1C | 1104 | C182 | 2038 | C352(JAPAN) | 2009 | C423B | 2009 | C539K | 2009 |
| BW67 | 2009 | BZ67 | 2009 | C13(TRANSISTOR) | 2001 | C182Q | 2038 | C352A | 2009 | C423C | 2009 | C539L | 2009 |
| BW71 | 2009 | BZ71 | 2009 | C14 | 2001 | C183 | 2038 | C356 | 2009 | C423D | 2009 | C539R | 2009 |
| BX090 | 562 | BZ-120 | 563 | C15(TRANSISTOR) | 2009 | C183E | 2038 | C360 | 2009 | C423E | 2009 | C539S | 2009 |
| BX67 | 2009 | BZ120 | 563 | C15-1 | 2009 | C183J | 2038 | C360D | 2009 | C423F | 2009 | C540 | 2009 |
| BX71 | 2009 | BZ-145 | 564 | C15-2 | 2009 | C183K | 2038 | C361 | 2011 | C424 | 2016 | C545 | 2011 |
| BX909 | 562 | BZ-150 | 564 | C15-3 | 2009 | C183L | 2038 | C362 | 2011 | C424(JAPAN) | 2009 | C545A | 2011 |
| BXY10 | 1114 | BZ-X19 | 564 | C16 | 2009 | C183M | 2038 | C363 | 2009 | C424D | 2009 | C545B | 2011 |
| BXY63 | 562 | BZX14 | 562 | C16A | 2009 | C183P | 2038 | C366 | 2009 | C425 | 2009 | C545C | 2011 |
| BY67 | 2009 | BZX17 | 563 | C18 | 2009 | C183Q | 2038 | C367 | 2009 | C425B | 2009 | C545D | 2011 |
| BY71 | 2009 | BZX19 | 564 | C21 | 2041 | C183R | 2038 | C369 | 2009 | C425C | 2009 | C545E | 2011 |
| BY100 | 1114 | BZX29C6V2 | 561 | C23H12B | JJ04 | C183W | 2038 | C369BL | 2009 | C425D | 2009 | C563A(3RDIF) | 2010 |
| BY100S | 1114 | BZX29C9V1 | 562 | C26 | 2009 | C184 | 2038 | C369G | 2009 | C425E | 2009 | C566 | 2009 |
| BY101 | 1104 | BZX29C12 | 563 | C28 | 2009 | C184H | 2038 | C369G-BL | 2009 | C425F | 2009 | C587 | 2009 |
| BY102 | 1104 | BZX29C15 | 564 | C29 | 2009 | C184J | 2038 | C369GBL | 2009 | C426 | 2030 | C587A | 2009 |
| BY104 | 1114 | BZX48C6V2 | 561 | C33 | 2009 | C184L | 2038 | C369G-GR | 2009 | C440 | 2009 | C588 | 2009 |
| BY105 | 1114 | BZX46C9V1 | 562 | C36(TRANSISTOR) | 2001 | C185 | 2038 | C369GGR | 2009 | C441 | 2009 | C593 | 2009 |
| BY106 | 1104 | BZX46CJ2 | 563 | C37 | 2009 | C185(TRANSISTOR) | 2038 | C369GR | 2009 | C442 | 2016 | C595 | 2009 |
| BY107 | 1104 | BZX46C13 | 563 | C37(TRANSISTOR) | 2009 | C185A | 2038 | C369G-V | 2009 | C444 | 2016 | C596 | 2009 |
| BY108 | 1114 | BZX-46C15 | 564 | C38 | 2009 | C185J | 2038 | C369V | 2009 | C450 | 2016 | C602E | 2009 |
| BY109 | 1114 | BZX55C6V2 | 561 | C38(TRANSISTOR) | 2009 | C185M | 2038 | C371 | 2009 | C454(A) | 2009 | C605 | 2038 |
| BY111 | 1104 | BZX55C9V1 | 562 | C39-207 | 2009 | C185Q | 2038 | C371(0) | 2009 | C454A | 2009 | C605(NEC) | 2038 |
| BY112 | 1104 | BZX55C12 | 563 | C45 | 2009 | C185R | 2038 | C371-0 | 2009 | C454C | 2009 | C605(Q) | 2038 |
| BY113 | 1104 | BZX55C13 | 563 | C47 | 2009 | C186 | 2011 | C371-O | 2009 | C454D | 2009 | C605K | 2038 |
| BY114 | 1104 | BZX71C6V2 | 561 | C48 | 2009 | C187 | 2011 | C371-R | 2009 | C454L | 2009 | C605L | 2038 |
| BY115 | 1104 | BZX71C9V1 | 562 | C48C | 2009 | C191 | 2009 | C371B | 2009 | C454LA | 2009 | C605M | 2038 |
| BY116 | 1104 | BZX71C9V2 | 562 | C49Y | 2041 | C192 | 2009 | C371G | 2009 | C458LG(B) | 2009 | C605Q | 2011 |
| BY117 | 1104 | BZX71CJ2 | 563 | C50(TRANSISTOR) | 2001 | C193 | 2009 | C371R | 2009 | C460 | 2010 | C605TW | 2038 |
| BY118 | 1114 | BZX71C13 | 563 | C50A | 2001 | C194 | 2009 | C372 | 2009 | C460(A) | 2010 | C606 | 2038 |
| BY119 | 1114 | BZX-71C15 | 564 | C52(TRANSISTOR) | 2009 | C195 | 2009 | C372(0) | 2009 | C460(B) | 2010 | C606(NEC) | 2038 |
| BY121 | 1104 | BZX71C15 | 564 | C53 | 2009 | C196 | 2009 | C372-0 | 2009 | C460A | 2010 | C619 | 2009 |
| BY122 | 1104 | BZX72 | 562 | C54 | 2009 | C197 | 2009 | C372-1 | 2009 | C460B | 2010 | C619B | 2009 |
| BY123 | 1104 | BZX72A | 562 | C55 | 2009 | C200(TRANSISTOR) | 2009 | C372-2 | 2009 | C460C | 2010 | C619C | 2009 |
| BY124 | 1104 | BZX72B | 562 | C56 | 2011 | C201(JAPAN) | 2009 | C372-O | 2009 | C460D | 2010 | C619D | 2009 |
| BY125 | 1104 | BZX72C | 562 | C60(DIODE) | 1123 | C202(JAPAN) | 2009 | C372-R | 2009 | C460G | 2010 | C620 | 2009 |
| BY126 | 1104 | BZX79C6V2 | 561 | C60(TRANSISTOR) | 2001 | C203 | 2009 | C372-Y | 2009 | C460GB | 2010 | C620C | 2009 |
| BY127/500 | 1114 | BZX79C9V1 | 562 | C62(TRANSISTOR) | 2009 | C204 | 2009 | C372-Z | 2009 | C460H | 2010 | C620CD | 2009 |
| BY127/600 | 1114 | BZX79C12 | 563 | C83 | 2009 | C205 | 2009 | C372GR | 2009 | C460K | 2010 | C620D | 2009 |
| BY127/700 | 1114 | BZX79C13 | 563 | C64 | 2009 | C218 | 2009 | C372H | 2009 | C460L | 2010 | C620DE | 2009 |
| BY128 | 1114 | BZX-79C15 | 564 | C66-P11111-0001 | 2009 | C218A | 2009 | C372Y | 2009 | C461 | 2013 | C620E | 2009 |
| BY129 | 1114 | BZX79C15 | 564 | C66-P11150-00001 | 2009 | C230 | 2009 | C375 | 2011 | C461A | 2013 | C621 | 2009 |
| BY130 | 1104 | BZX83C9V1 | 562 | C67 | 2009 | C237 | 2009 | C375-0 | 2011 | C461B | 2013 | C622 | 2009 |
| BY134 | 1104 | BZX83C12 | 563 | C68 | 2009 | C239 | 2009 | C377 | 2009 | C461C | 2013 | C629 | 2011 |
| BY135 | 1104 | BZX83C13 | 563 | C71 | 2001 | C244 | 2041 | C378 | 2009 | C461E | 2013 | C631 | 2009 |
| BY141 | 1104 | BZX83C15 | 564 | C72 | 2001 | C266 | 2011 | C379 | 2009 | C461L | 2013 | C631A | 2009 |
| BY153 | 1104 | BZY-19 | 563 | C73 | 2007 | C267 | 2009 | C380 | 2013 | C468 | 2009 | C632 | 2009 |
| BY164 | 1104 | BZY-19 | 564 | C73(JAPAN) | 2001 | C267A | 2009 | C380(TRANSISTOR) | 2013 | C468A | 2009 | C632A | 2009 |
| BY1001 | 1114 | BZY59 | 561 | C75 | 2007 | C281 | 2009 | C380-0 | 2013 | C469 | 2038 | C633 | 2009 |
| BY1002 | 1114 | BZY63 | 562 | C75(JAPAN) | 2001 | C281A | 2009 | C380-O | 2013 | C469A | 2038 | C633-7 | 2009 |
| BY1101 | 1114 | BZY66 | 561 | C76 | 2007 | C281B | 2009 | C380-O/4454C | 2013 | C469K | 2038 | C633A | 2009 |
| BY1102 | 1114 | BZY68 | 562 | C76(JAPAN) | 2001 | C281C | 2009 | C380A-0(TV) | 2013 | C469Q | 2038 | C633G | 2009 |
| BY1200 | 1114 | BZY69 | 563 | C77 | 2001 | C281C-EP | 2009 | C380A | 2013 | C469R | 2038 | C633H | 2009 |
| BY1201 | 1114 | BZY83/C15 | 564 | C77C | 2001 | C281D | 2009 | C380A(O) | 2013 | C475 | 2009 | C634 | 2009 |
| BY1202 | 1114 | BZY83C6V2 | 561 | C78 | 2001 | C281EP | 2009 | C380AO | 2013 | C475K | 2009 | C634A | 2009 |
| BYX10 | 1114 | BZY83C9V1 | 562 | C83-829 | 1104 | C281H | 2009 | C380A-R | 2013 | C476 | 2009 | C640 | 2009 |
| BYX12/400 | 1114 | BZY83C12 | 563 | C83-880 | 1104 | C281HA | 2009 | C380A-R(TV) | 2013 | C-505 | 1102 | C640B | 2009 |
| BYX13/600 | 1114 | BZY83C13V5 | 563 | C87 | 2009 | C281HB | 2009 | C380ATV | 2013 | C520(TRANSISTOR) | 2041 | C645 | 2011 |
| BYX22/200 | 1104 | BZY-83C15 | 564 | C89 | 2001 | C281HC | 2009 | C380AY | 2013 | C520A | 2041 | C645A | 2011 |
| BYX22/400 | 1104 | BZY83C15 | 564 | C90 | 2001 | C282 | 2009 | C380D | 2013 | C521 | 2041 | C645B | 2011 |
| BYX22/600 | 1104 | BZY83C16 | 564 | C91 | 2001 | C282H | 2009 | C380R | 2013 | C521A | 2041 | C645C | 2011 |
| BYX22/800 | 1114 | BZY83D12 | 563 | C100 | 2009 | C282HA | 2009 | C380R/4454C | 2013 | C529 | 2009 | C645G | 2011 |
| BYX36/150 | 1104 | BZY-83D15 | 564 | C100-OY | 2009 | C282HB | 2009 | C380Y | 2013 | C529A | 2009 | C645N | 2011 |
| BYX36/300 | 1104 | BZY83D15 | 564 | C103 | 2009 | C282HC | 2009 | C381 | 2011 | C535 | 2013 | C647Q | 2041 |
| BYX36/600 | 1104 | BZY85/C15 | 564 | C103(JAPAN) | 2009 | C283 | 2009 | C381-0 | 2011 | C535A | 2013 | C647R | 2041 |
| BYX36-300 | 1104 | BZY85/D15 | 564 | C103A(TRANSISTOR) | 2009 | C283(TRANSISTOR) | 2009 | C381-O | 2011 | C535B | 2013 | C650B | 2009 |
| BYX36-600 | 1104 | BZY85C6V2 | 561 | C104 | 2009 | C284 | 2009 | C381-R | 2011 | C535C | 2013 | C652 | 2038 |
| BYX58-50 | 1102 | | | C104A | 2009 | C284H | 2009 | C381BN | 2011 | C535G | 2013 | C654 | 2009 |
| BYX58-100 | 1102 | | | C105 | 2009 | C284HA | 2009 | C381R | 2011 | C537 | 2009 | C655 | 2009 |
| BYX58-200 | 1102 | | | C106A | 1067 | C284HB | 2009 | C385(TRANSISTOR) | 2011 | C537(F) | 2009 | C656 | 2011 |
| BYX60-50 | 1104 | | | C106B | 1067 | C285 | 2009 | C385A | 2011 | | | C657 | 2011 |
| BYX60-200 | 1104 | | | C106F | 1067 | C285A | 2009 | C387(TRANSISTOR) | 2015 | | | C664 | 2041 |
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| C668 | 2011 | C765 | 2041 | C839(H) | 2009 | C934(TRANSISTOR) | 2009 | C1393 | 2009 | CB10 | 1104 | CD6157 | 2009 |
| C668-0 | 2013 | C768 | 2041 | C839(J) | 2009 | C934C | 2009 | C1394 | 2011 | CB20 | 1104 | CD6161P1N013-75 | 1122 |
| C668A | 2013 | C772 | 2013 | C839(M) | 2009 | C934D | 2009 | C1395 | 2015 | CB50 | 1104 | CD6375 | 2009 |
| C668B | 2013 | C772B | 2011 | C839A | 2009 | C934E | 2009 | C1417 | 2011 | CB-101 | 2007 | CD8000 | 2009 |
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| GE-1N5061 | 1104 | GI237 | 1114 | GP2-345 | 1102 | GTE1 | 2007 | HA9056 | 2022 | HD200207 | 1104 | HEP-C6102P | 038 |
| GE-5 | 2001 | GI-300D | 1104 | GP2-345/MA161 | 1102 | GTE2 | 2007 | HA9057 | 2022 | HD200301 | 1104 | HEPC6102P | 038 |
| GE-6 | 2001 | GI411 | 1104 | GP25G | 1104 | GTJ33350 | 1101 | HA9058 | 2022 | HD-1000101 | 1123 | HEP-C6103P | 017 |
| GE6.2 | 561 | GI420 | 1104 | GP230 | 1104 | GTV | 2007 | HA9059 | 2022 | HD1000101 | 1123 | HEPC6103P | 017 |
| GE6.2A | 561 | GI-2711 | 2016 | GP250 | 1104 | GV5760 | 1102 | HA9078 | 2022 | HD1000101-0 | 1123 | HEPF0010 | 2036 |
| GE6.2B | 561 | GI2711 | 2009 | GP-354 | 1123 | GV6063 | 2009 | HA9079 | 2022 | HD1000301 | 1123 | HEP-F0015 | 2035 |
| GE-7 | 2001 | GI2712 | 2016 | GP2354 | 1123 | GVL20077 | 2009 | HA9531 | 2023 | HD1000302 | 1123 | HEPF0015 | 2035 |
| GE-8 | 2001 | GI2712 | 2009 | GPM1NA | 1123 | GVL20226 | 1122 | HA9531A | 2023 | HD1000303 | 1123 | HEP-F0021 | 2036 |
| GE-10 | 2031 | GI2713 | 2016 | GPM1NB | 1123 | GVL20265 | 1122 | HA9532 | 2023 | HD1000303-0 | 1123 | HEPF0021 | 2036 |
| GE-11 | 2038 | GI2713 | 2009 | GPM2NA | 1123 | GVL20327-1 | 1122 | HA9532A | 2023 | HD-2000106 | 1102 | HEPG0004 | 2007 |
| GE-14 | 2041 | GI2714 | 2010 | | | GZ6.2 | 561 | HA17723 | 1740 | HD2000106 | 1102 | HEPG0005 | 2007 |

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| HEPG0006 | 2007 | HF-20095 | 1102 | HR9A | 2007 | HST5002 | 2012 | HT304581B | 2009 | HV46GR(DIOOE) | 1104 | IP20-0145 | 1102 |
| HEPG0006P/G | 2007 | HF-20105 | 1104 | HR10 | 1104 | HST5003 | 2012 | HT304581B-O | 2031 | HV-80 | 1102 | IP20-0154 | 2020 |
| HEPG0007 | 2007 | HF-20124 | 1102 | HR-11 | 2009 | HST5004 | 2012 | HT304581C | 2009 | HV80 | 1102 | IP20-0167 | 1104 |
| HEPG0007P/G, | 2007 | HF200191A-0 | 2035 | HR11 | 1104 | HST5005 | 2012 | HT304601BO | 2009 | HV-100 | 1104 | IP20-0179 | 2013 |
| HEP-G0011 | 2001 | HF200191A0 | 2036 | HR-11A | 2009 | HST5006 | 2012 | HT304601CO | 2009 | HV460R | 1102 | IP20-0184 | 1102 |
| HEPR0050 | 1104 | HF200191A | 2035 | HR11A | 2009 | HST5007 | 2012 | HT304861B | 2009 | HV-801 | 1123 | IP20-0191 | 2010 |
| HEPR0051 | 1104 | HF200191A/ | 2035 | HR-11B | 2009 | HST5008 | 2012 | HT304941X | 2041 | HW9.1 | 562 | IP20-0192 | 2009 |
| HEPR0052 | 1104 | HF200191AO | 2036 | HR11B | 2009 | HST5009 | 2012 | HT305351CO | 2030 | HW9.1B | 562 | IP20-0203 | 561 |
| HEPR0053 | 1104 | HF200191B-0 | 2035 | HR-13 | 2009 | HST5010 | 2012 | HT305361E | 2009 | HW12 | 563 | IP20-0216 | 1102 |
| HEPR0054 | 1104 | HF200191B0 | 2035 | HR13 | 1104 | HST5051 | 2012 | HT305361G | 2009 | HW12A | 563 | IR1D | 1104 |
| HEP-R0700 | 1101 | HF200301B | 2035 | HR-13A | 2009 | HST5052 | 2012 | HT305371E | 2009 | HW12B | 563 | IR2A | 563 |
| HEPR0700 | 1101 | HF200301B0 | 2035 | HR13A | 2009 | HST5053 | 2012 | HT306441 | 2009 | HW15 | 564 | IR2E | 1104 |
| HEP-R9001 | 1102(2) | HF200301C-0 | 2036 | HR14 | 2009 | HST5054 | 2012 | HT306441A | 2009 | HW15A | 564 | (IR)2SC372 | 2013 |
| HEP-R9002 | 1102(2) | HF200301C-O | 2035 | HR-14A | 2009 | HST5055 | 2012 | HT306441B-0 | 2009 | HW15B | 564 | (IR)2SC380AO | 2013 |
| HEP-R9003 | 1102(2) | HF200411B | 2035 | HR14A | 2009 | HST5056 | 2012 | HT306441B0 | 2009 | HX50002 | 2009 | (IR)2SC454B | 2010 |
| HEP-R9134 | 1123 | HF2000411B | 2035 | HR-15A | 2009 | HST5502 | 2012 | HT306441B | 2009 | HX50003 | 2011 | (IR)2SC456B | 2010 |
| HEPR9134 | 1123 | HF-DS410 | 1102 | HR15A | 2009 | HST5503 | 2012 | HT306441C-0 | 2009 | HX-50063 | 2009 | (IR)2SC460B | 2013 |
| HEPR9134A | 1123 | HF-MV2 | 1102 | HR-16 | 2009 | HST5504 | 2012 | HT306441C | 2009 | HX-50072 | 2009 | (IR)2SC537B | 2014 |
| HEP-R9135 | 1123 | HFOW05 | 1104 | HR16 | 2009 | HST5505 | 2012 | HT306451A | 2011 | HX-50110 | 2009 | (IR)2SC682A | 2013 |
| HEPS0002 | 2010 | HF-SD1 | 1104 | HR-16A | 2009 | HST5507 | 2012 | HT306451H | 2012 | HX-50113 | 2009 | (IR)2SC719 | 2014 |
| HEP-S0004 | 2009 | HF-SO-1A | 1104 | HR16A | 2009 | HST5508 | 2012 | HT306451H | 2030 | HY3045801C | 2009 | (IR)2SC717 | 2030 |
| HEPS0004 | 2009 | HFSD1A | 1104 | HR-17 | 2009 | HST5509 | 2012 | HT306962A-0 | 2030 | HZ-6B | 561 | (IR)2SC772 | 2013 |
| HEP-S0008 | 2013 | HFSD1B | 1104 | HR17 | 2009 | HST5510 | 2012 | HT307321A | 2009 | HZ-6C | 561 | (IR)2SC828A | 2013 |
| HEPS0008 | 2016 | HF-SD-1B | 1104 | HR17A | 2009 | HST5551 | 2012 | HT307321B-0 | 2009 | HZ-9 | 562 | (IR)2SC829B | 2009 |
| HEPS004 | 2009 | HF-SD-1C | 1104 | HR-18 | 2009 | HST5552 | 2012 | HT307321B-O | 2009 | HZ-9B | 562 | (IR)2SC838 | 2009 |
| HEP-S0010 | 2013 | HF-SD-1Z | 1104 | HR18 | 2009 | HST5553 | 2012 | HT307322A | 2009 | HZ9B | 562 | IR5JA | 1123 |
| HEPS0010 | 2038 | HFSG005 | 1104 | HR-18A | 2009 | HST5554 | 2012 | HT307331B | 2009 | HZ-12 | 563 | IR20 | 1104 |
| HEP-S0011 | 2009 | HG1090 | 1123 | HR18A | 2009 | HST5555 | 2012 | HT307331C0 | 2009 | HZ-12A | 563 | IRC20 | 1067 |
| HEPS0011 | 2010 | HG5002 | 1123 | HR-19 | 2009 | HST5556 | 2012 | HT307331C | 2009 | HZ-12B | 563 | IRTR05 | 2007 |
| HEPS0015 | 2010 | HG5004 | 1123 | HR19 | 2009 | HST5906 | 2020 | HT307341B | 2009 | HZ-212 | 563 | IRTR08 | 2002 |
| HEPS0016 | 2038 | HG5006 | 1123 | HR-19A | 2009 | HST7402 | 2012 | HT307341C-0 | 2009 | I9A115728-2 | 2009 | IRTR09 | 2001 |
| HEPS0017 | 2038 | HG5007 | 1123 | HR19A | 2009 | HST7403 | 2012 | HT307720B | 2011 | i964(6 | 1102 | IRTR11 | 2007 |
| HEP-S0020 | 2013 | HG5008 | 1123 | HR-32 | 2009 | HST7412 | 2012 | HT307721C | 2011 | I85436 | 1102 | IRTR12 | 2004 |
| HEPS0020 | 2038 | HG5009 | 1123 | HR32 | 2009 | HST7413 | 2012 | HT307721D | 2011 | IC-20 | 1740 | IRTR17 | 2004 |
| HEP-S0022 | 2009 | HG5078 | 1123 | HR-36 | 2009 | HST7415 | 2012 | HT308281B | 2009 | IC-20(PHILCO) | 1740 | IRTR20 | 2032 |
| HEPS0022 | 2016 | HG5079 | 1123 | HR36 | 2009 | HST7416 | 2012 | HT308281C | 2009 | IC-23 | 1725 | IRTR22 | 2030 |
| HEPS0025 | 2010 | HG5085 | 1123 | HR-37 | 2009 | HST9002 | 2012 | HT308281G | 2009 | IC23 | 1725 | IRTR24 | 2010 |
| HEP-S0030 | 2009 | HG5088 | 1123 | HR37 | 2009 | HST9003 | 2012 | HT308281O | 2009 | IC37(ELCOM) | 1733 | IRTR51 | 2030 |
| HEPS0030 | 2016 | HG5808 | 1123 | HR-38 | 2009 | HST9005 | 2012 | HT308282A-0 | 2009 | IC-40(ELCOM) | 007 | IR-TR58 | 2043 |
| HEP-S0033 | 2013 | HGR1 | 1104 | HR39 | 2011 | HST9006 | 2012 | HT308282A | 2009 | IC40(ELCOM) | 007 | IR-TR59 | 2041 |
| HEPS0033 | 2016 | HGR2 | 1104 | HR-40 | 2004 | HST9008 | 2012 | HT308282A-O | 2009 | IC-53(ELCOM) | 1740 | IRTR60 | 2012 |
| HEPS3013 | 2038 | HGR3 | 1104 | HR-43 | 2004 | HST9009 | 2012 | HT308291A | 2011 | IC53(ELCOM) | 1740 | IRTR-61 | 2041 |
| HEP-S7002 | 2041 | HGR4 | 1104 | HR-45 | 2004 | HST-9201 | 2041 | HT308291A-O | 2011 | IC-109(ELCOM) | 010 | IRTR-62 | 2009 |
| HEPS7002 | 2041 | HGR-5 | 1104 | HR-48 | 2009 | HST-9205 | 2041 | HT308291B0 | 2011 | IC-210(ELCOM) | 017 | IRTR62 | 2009 |
| HEP-S7004 | 2041 | HG-R10 | 1104 | HR48 | 2009 | HST-9206 | 2041 | HT308291B | 2011 | IC210(ELCOM) | 017 | IRTR63 | 2009 |
| HEPS7004 | 2041 | HGR-10 | 1104 | HR-58 | 2011 | HST-9210 | 2041 | HT308291B-O | 2009 | IC-296(ELCOM) | 038 | IRTR-70 | 2038 |
| HEP-Z0214 | 561 | HGR-20 | 1104 | HR-59 | 2011 | HT040519C | 2001 | HT308291BO | 2009 | IC317(ELCOM) | 007 | IRTR70 | 2038 |
| HEPZ0214 | 561 | HGR-30 | 1104 | HR-60 | 2009 | HT-23G | 1102 | HT308291C | 2011 | IC-531(ELCOM) | 1740 | IRTR-71 | 2016 |
| HEP-Z0219 | 562 | HGR-40 | 1104 | HR62 | 2009 | HT100 | 2022 | HT309291E | 2011 | IC-602(ELCOM) | 702 | IRTR71 | 2016 |
| HEPZ0219 | 562 | HGR-60 | 1104 | HR63 | 2009 | HT101 | 2022 | HT309301D | 2011 | IC743040 | 2013 | IRTR79 | 2012 |
| HEP-Z0222 | 563 | HIFI | 1104 | HR64 | 2009 | HT400 | 2013 | HT309842A-0 | 2009 | IC743041 | 2013 | IRTR86 | 2009 |
| HEP-Z0225 | 564 | HJ22D | 2007 | HR65 | 2009 | HT401 | 2013 | HT340519C | 2001 | IC743042 | 2009 | IRTRFE100 | 2035 |
| HEP-Z0408 | 561 | HJ41 | 2007 | HR66 | 2009 | HT30494 | 2041 | HT401191 | 2041 | IC743046 | 2035 | IS-446D | 1102(2) |
| HEPZ0408 | 561 | HJ56 | 2007 | HR76 | 2011 | HT30494X | 2041 | HT401191A | 2041 | IC743048 | 562 | ISD-162 | 2001 |
| HEP-Z0412 | 562 | HJ75 | 2004 | HR77 | 2013 | HT38281D | 2009 | HT401191D | 2041 | IC743049 | 1104 | ISD162 | 2001 |
| HEPZ0412 | 562 | HK-00049 | 2036 | HR78 | 2013 | HT104941B-0 | 2032 | HT800011F | 2009 | IC743050 | 1122 | IT22 | 1123 |
| HEP-Z0415 | 563 | HK-00330 | 2035 | HR79 | 2011 | HT105611BO | 2032 | HT800011G | 2009 | IC743051 | 1123 | IT23 | 1123 |
| HEP-Z0418 | 564 | HKT-158 | 2009 | HR80 | 2011 | HT105621BO | 2032 | HT800011K | 2009 | IE12Z5 | 563 | IT23G | 1123 |
| HE-SO1 | 1104 | HKT-161 | 2009 | HR84(NPN) | 2009 | HT303620B | 2009 | HT3036201 | 2009 | IE460B | 2009 | IT108 | 2036 |
| HF-0SW05 | 1104 | HL24510 | 007 | HR87 | 2013 | HT303711A0 | 2009 | HT3036210 | 2009 | IE850 | 2009 | IT120 | 2010 |
| HF0W05 | 1104 | HL24593 | 007 | HS133 | 1101 | HT303711A | 2011 | HT3037210 | 2009 | IM4004 | 1104 | IT121 | 2010 |
| HF1 | 2009 | HL24630 | 017 | HS902A | 1101 | HT303711A-O | 2030 | HT3037210-0 | 2009 | IN60-1 | 1123 | IT122 | 2013 |
| HF-1B | 1104 | HM9.1 | 562 | HS1001 | 1104 | HT303711AO | 2009 | HT3037210-O | 2031 | INJ60284 | 1123 | IT205A | 2004 |
| HF-1S334 | 562 | HM9.1A | 562 | HS1002 | 1104 | HT303711B-0 | 2031 | HT3037310 | 2009 | INJ61224 | 1123 | IT918 | 2038 |
| HF-1S339 | 562 | HM9.1B | 562 | HS1003 | 1104 | HT303711B0 | 2009 | HT3038013-B | 2011 | INJ61225 | 1123 | IT918A | 2013 |
| HF-1Z | 1104 | HM12 | 563 | HS1007 | 1104 | HT303711B | 2011 | HT3073310 | 2009 | INJ61227 | 1104(2) | IT929 | 2013 |
| HF2 | 2009 | HM12A | 563 | HS1008 | 1104 | HT303711B-O | 2030 | HT8000710 | 1104 | INJ61433 | 1102 | IT930 | 2013 |
| HF3 | 2009 | HM12B | 563 | HS1009 | 1104 | HT303711BO | 2009 | HT8001810 | 2009 | INJ61434 | 1104 | IT2218 | 2009 |
| HF4 | 2009 | HM13 | 563 | HS1010 | 1104 | HT303711C | 2011 | HT30373100 | 2009 | INJ61675 | 1123 | IT2219 | 2009 |
| HF5 | 2009 | HM13A | 563 | HS1011 | 1104 | HT303721-0 | 2009 | HV0000105 | 1104 | INJ61677 | 1102 | IT2221 | 2009 |
| HF6 | 2009 | HM15 | 564 | HS1012 | 1104 | HT303721O | 2009 | HV0000105-0 | 1104 | INJ61725 | 1102 | IT2222 | 2009 |
| HF7 | 2009 | HM15A | 564 | HS1020 | 1104 | HT303730 | 2009 | HV0000206 | 1102 | INJ61726 | 1104 | IT2483 | 2010 |
| HF8 | 2009 | HM15B | 564 | HS-1168 | 2009 | HT303730A | 2009 | HV000003U2 | 2011 | INJ70980 | 1123 | IT2904 | 2023 |
| HF22 | 2041 | HN-00002 | 1102 | HS-1229 | 2009 | HT303801 | 2011 | HV0000406 | 1104 | IP20-0001 | 2009 | IT2905 | 2023 |
| HF-40 | 2009 | HN-00003 | 1123 | HS2062 | 561 | HT303801A0 | 2011 | HV0000502 | 1102 | IP20-0002 | 2009 | IT2906 | 2023 |
| HF43 | 2012 | HN-00005 | 563 | HS2120 | 563 | HT303801A | 2011 | HV0000705 | 1104 | IP20-0003 | 2009 | IT2907 | 2023 |
| HF50 | 2009 | HN-00008 | 1104 | HS2150 | 564 | HT303801AO | 2009 | HV00001050 | 1102 | IP20-0006 | 2009 | ITC918A | 2013 |
| HF-2003 | 1122 | HN-00012 | 562 | HS3103 | 1104 | HT303801B-0 | 2011 | HV-15 | 1123 | IP20-0010 | 2036 | ITE4416 | 2036 |
| HF-10024 | 1123 | HN-00018 | 1104 | HS3104 | 1104 | HT303801B0 | 2009 | HV15 | 1123 | IP20-0011 | 2035 | ITT73 | 1102 |
| HF-20004 | 562 | HN-00024 | 562 | HS3108 | 1114 | HT303801B | 2011 | HV-23 | 1102 | IP20-0012 | 2035 | ITT73N | 1122 |
| HF-20008 | 1123 | HN-00029 | 1104 | HS3110 | 1114 | HT303801B-O | 2009 | HV23 | 1102 | IP20-0015 | 1123 | ITT200 | 1122 |
| HF-20011 | 562 | HN-00032 | 1104 | HS5810 | 2030 | HT303801BO | 2009 | HV23(DIODE) | 1102 | IP20-0016 | 1123 | ITT350 | 1104 |
| HF-20014 | 1102 | HN-0047 | 1102 | HS5814 | 2030 | HT303801C0 | 2011 | HV-23(ELGIN) | 1104 | IP20-0019 | 564 | ITT402 | 1104 |
| HF-20032 | 1104 | HO89 | 563 | HS7062 | 561 | HT303801C | 2011 | HV-23(TRANSISTOR) | 2009 | IP20-0020 | 562 | ITT413 | 1102 |
| HF20032 | 1102 | HO91 | 1123 | HS7091 | 562 | HT303801CO | 2009 | HV-23BL | 1123 | IP20-0021 | 1123 | ITT709(METAL-CAN) | 017 |
| HF-20034 | 1102 | HP-5A | 1104 | HS7120 | 563 | HT304508K | 2031 | HV23F | 2009 | IP20-0022 | 1102 | ITT709-5(METAL-CAN) | 017 |
| HF-20041 | 563 | HP205 | 1104 | HS7150 | 564 | HT304531 | 2009 | HV-23G(BL) | 1102 | IP20-0023 | 1104 | ITT723(D.I.P.) | 1740 |
| HF-20042 | 1104 | HP5082-2800 | 1122 | HS-40017 | 2009 | HT304531A | 2009 | HV-25 | 1102 | IP20-0024 | 1104 | ITT723-5(D.I.P.) | 1740 |
| HF-20047 | 1104 | HP35860A | 2013 | HS-40020 | 2009 | HT304531B | 2009 | HV25 | 2009 | IP20-0025 | 1102 | ITT741(D.I.P.) | 010 |
| HF-20048 | 1102 | HR-05A | 1104 | HS-40037 | 2009 | HT304531C | 2009 | HV-25(DIODE) | 1102 | IP20-0026 | 1114 | ITT741(METAL-CAN) | 007 |
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| HF-20052 | 1104 | HR-2A(PENNCREST) | 1104 | HS-40044 | 2009 | HT304540B0 | 2009 | HV-25(RCA) | 1102 | IP20-0035 | 2036 | ITT741-5(METAL-CAN) | 007 |
| HF-20060 | 1102 | HR4A | 2007 | HS-40046 | 2009 | HT304540BO | 2009 | HV-26 | 1104 | IP20-0039 | 2010 | ITT921 | 1102 |
| HF20060 | 1102 | HR5 | 2007 | HS40046 | 2009 | HT304580 | 2009 | HV26 | 1104 | IP20-0040 | 2013 | ITT992 | 1104 |
| HF-20061 | 1102 | HR-5A | 1104 | HS-40054 | 2014 | HT304580A | 2009 | HV-26G | 1104 | IP20-0041 | 2009 | ITT7215 | 1102 |
| HF-20063 | 1102 | HR5A | 1104 | HS-40055 | 2009 | HT304580B | 2009 | HV-27 | 1102 | IP20-0054 | 1104 | IX8055-375005N | 1122 |
| HF-20064 | 1102 | HR5A8E | 1104 | HSFD-1A | 1104 | HT304580C0 | 2009 | HV-46 | 1104 | IP20-0061 | 1102 | J-05 | 1104 |
| HF-20065 | 562 | HR-5AX2 | 1104 | HSFD-1Z | 1104 | HT304580CO | 2009 | HV46 | 1104 | IP20-0078 | 2036 | J-1 | 1104 |
| HF-20066 | 1104 | HR-5B | 1104 | HSFD-1Z(SONY-STANDBY) | 1104 | HT304580K | 2009 | HV46 # OR # (OIODE) | 1104 | IP20-0110 | 2013 | J-2 | 1104 |
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| J-6 | 1104 | JC-00033 | 1104 | K4K5 | 1114 | K49HK(1-GATE) | 2035 | KC2DP12/1 | 1104(2) | LD128 | 1101 | LRR-200 | 1104 |
| J100 | 1104 | JC-00035 | 1104 | K4M5 | 1114 | K49I | 2035 | KC2DP12/1N | 1104 | LD128(RCA) | 1101 | LRR200 | 1104 |
| J107 | 2011 | JC-00037 | 1104 | K5A5 | 1104 | K49I(1-GATE) | 2035 | KC2DP12/2 | 1104 | LDA400 | 2016 | LRR-300 | 1104 |
| J139A | 2009 | JC-00044 | 1104 | K5B5 | 1104 | K49M(1-GATE) | 2035 | KC2DP121N | 1104 | LDA400MP | 2016 | LRR300 | 1104 |
| J241 | 1123 | JC-00045 | 1104 | K5C5 | 1104 | K52 | 1123 | KC2DP221 | 1104 | LDA401 | 2010 | LRR-400 | 1104 |
| J242 | 1123 | JC-00047 | 1104 | K5D5 | 1104 | K55(1-GATE) | 2036 | KC2DP221B | 1104 | LDA401MP | 2016 | LRR400 | 1104 |
| J243 | 1123 | JC-00049 | 1104 | K5E5 | 1104 | K55D(1-GATE) | 2036 | KC2DP122 | 1104 | LDA402 | 2010 | LRR-500 | 1104 |
| J308 | 2036 | JC-00051 | 1104 | K5F5 | 1104 | K55E(1-GATE) | 2036 | KC2G11/1 | 1104 | LDA404 | 2009 | LRR500 | 1104 |
| J685 | 1123 | JC-00055 | 1104 | K5G5 | 1104 | K60 | 1123 | KC2G11/1+12/1 | 1104 | LDA406 | 2038 | LS-0085-01 | 2009 |
| J961B(G.E.) | 2009 | JC-00059 | 1104 | K5H5 | 1114 | K115J511-2 | 1123 | KC2G11/1&12/1 | 1104 | LDA410 | 2013 | LS3705 | 2009 |
| J2441 | 1123 | JC-0025 | 1104 | K5K5 | 1114 | K119J804-5 | 1102 | KC2G12/1 | 1104 | LDA414 | 2038 | LS5484 | 2035 |
| J20437 | 1104 | JC-10D1 | 1104 | K5M5 | 1114 | K120Y(1-GATE) | 2035 | KC13C221 | 1104 | LDA420 | 2016 | LS5485 | 2035 |
| J20438 | 563 | JC-DS16E | 1104 | K6 | 1123 | K121J688-1 | 2011 | KC1322/1 | 1104 | LDA454 | 2034 | LT1016(E) | 2009 |
| J24127 | 1104 | JC-KS05 | 1104 | K10 | 2035 | K170(1-GATE) | 2035 | KCO-8CP | 1104 | LDS200 | 2016 | LT1016H | 2013 |
| J24262 | 561 | JCN1 | 1104 | K11(1-GATE) | 2035 | K170R(1-GATE) | 2035 | KCO-8CP11/1+12/1 | 1104 | LDS201 | 2016 | LT1016I,H | 2009 |
| J24458 | 2009 | JCN2 | 1104 | K11-0(1-GATE) | 2035 | K198L | 2035 | KD27 | 1123 | LDS202 | 2023 | LT1016T,H | 2009 |
| J24561 | 2011 | JCN3 | 1104 | K11-R(1-GATE) | 2035 | K200 | 1104 | KD2102 | 2009 | LDS205 | 2038 | LTE1016 | 2013 |
| J24562 | 2011 | JCN4 | 1104 | K11-Y(1-GATE) | 2035 | K882 | 1123 | KD2103 | 1104 | LDS206 | 2031 | LTH1016 | 2013 |
| J24563 | 2011 | JCN5 | 1104 | K12(1-GATE) | 2035 | K2001 | 2011 | KD2104 | 1104 | LDS207 | 2013 | LTI1016 | 2011 |
| J24564 | 2009 | JCN6 | 1104 | K12-3(1-GATE) | 2035 | K2109 | 2015 | KD2124 | 2001 | LDS208 | 2033 | M-0027 | 1104 |
| J24565 | 2009 | JCN7 | 1114 | K12-GR(1-GATE) | 2035 | K2110 | 2015 | KD2503 | 561 | LDS210 | 2033 | M0027 | 1104 |
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| MPS9631 | 2009 | MR1237FL | 1104 | MV1 | 1104 | NA-46 | 1104 | NL60 | 1104 | OA50 | 1123 | OSS36885 | 1104 |
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| MPS9646H | 1102 | MR9600 | 1104 | MY-1 | 1102 | N-EA15X134 | 2011 | NPC187 | 2016 | OA90G | 1123 | P04-41-0025-001 | 1122 |
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| MPS9646M | 1102 | MR9602 | 1104 | MZ6.2 | 561 | N-EA15X136 | 2009 | NPC737 | 2009 | OA90ZA | 1123 | P04-44-0028 | 2009 |
| MPS9682(I) | 2032 | MR9604 | 2009 | MZ6.2A | 561 | N-EA15X137 | 2009 | NPC1075 | 2010 | OA-91 | 1123 | P04-45-0014-P2 | 2009 |
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| MPS96800 | 2032 | MRS6548 | 2011 | MZ-12B | 563 | NGP3002 | 1123 | NPSA20 | 2016 | OA128 | 1104 | P04440028-8 | 2009 |
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| MPSA10-WHT | 2016 | MS5C | 1104 | MZ92-6,0B | 561 | NJ102C | 2009 | NR-10 | 2001 | OA150 | 1123 | P1D5 | 1104 |
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| | | MS14H | 1104 | | | | | | | OA174 | 1123 | | |
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| P100A | 1104 | PA9006 | 2009 | PH9DS22 | 1104 | PN2369 | 2030 | PT-3 | 1104 | Q-00184R | 2035 | QD-SSR1KX4P | 1104 |
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| R-202 | 2001 | R8225 | 2009 | RD9 | 562 | RE121 | 564 | RH-DX0033TAZZ | 1102 | RS1823 | 1104 | RS5105 | 2007 |
| R202 | 2001 | R8243 | 2009 | RD-9A | 562 | RE-168 | 1067 | RHDX0033TAZZ | 1102 | RS1832 | 1104 | RS-5106 | 2007 |
| R-203 | 2001 | R8244 | 2009 | RD9A | 562 | RE168 | 1067 | RH-DX0039TAZZ | 1104 | RS-2001 | 2001 | RS5301 | 2007 |
| R203 | 2001 | R8257 | 1123 | RD9A(10) | 562 | RE-171 | 1067 | RH-DX0041CEZZ | 1104 | RS-2002 | 2002 | RS5303 | 2007 |
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| R227 | 2007 | R8261 | 2009 | RD9AM | 562 | RE-321-IC | 1725 | RHDX0043TAZZ | 1104 | RS-2005 | 2005 | RS5403 | 2007 |
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| R244 | 2007 | R8312 | 2009 | RD9AN | 562 | RE-322-IC | 702 | RH-DX0048CEZZ | 1102 | RS-2007 | 2007 | RS5504 | 2007 |
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| R2164 | 1123 | R8887 | 1123 | RD15E | 564 | RF29799P | 1104 | RKZ120101 | 1122 | RS-2030 | 2030 | RS7103 | 2009 |
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| R7361 | 2009 | RC709T | 017 | RE46 | 2035 | RFJ70974 | 1104 |  |  |  |  |  |  |

| DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- | DEVICE | 276- |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| RS9511 | 2011 | RT5216 | 1104 | RV-2289 | 1104 | S1B01-01 | 1104 | S19A | 1104 | S252 | 1104 | S1432 | 2009 |
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| RS15048 | 2009 | RT5385 | 1104 | RV2327 | 1104 | S1B01-02 | 1104 | S20ND400 | 1104 | S254 | 1104 | S1453 | 2009 |
| RS86057332 | 2009 | RT5464 | 2011 | RVD08C22/1A | 1104 | S1B01-0E | 1104 | S20NH400 | 1104 | S255 | 1104 | S1475 | 2009 |
| RT-100 | 2009 | RT5465 | 2011 | RVD1K110 | 1123 | S1B01-0226 | 1104 | S21 | 1104 | S256 | 1104 | S1476 | 2009 |
| RT-102 | 2009 | RT5472 | 1104 | RVD1N34A | 1123 | S1B02 | 1104 | S22 | 1104 | S257 | 1114 | S1477 | 2032 |
| RT-104 | 2016 | RT5551 | 2009 | RVD2-1K110 | 1123 | S1B02-0 | 1104(2) | S22A | 1104 | S258 | 1114 | S1487 | 2009 |
| RT-107 | 2016 | RT5554 | 1102 | RVD2DP | 1104 | S1B02-C | 1104 | S23 | 1104 | S260 | 1114 | S1502 | 2009 |
| RT-108 | 2038 | RT5793 | 561 | RVD2DP22/18 | 1104 | S1B02-CR | 1104(2) | S23A | 1104 | S-262 | 1104 | S1510 | 2009 |
| RT-110 | 2008 | RT5908 | 1123 | RVD2DP221P | 1104 | S1B02-CR1 | 1102(2) | S24 | 1104 | S262 | 1104 | S1512 | 2009 |
| RT-111 | 2012 | RT5909 | 1102 | RVD2P22/18 | 1104 | S1B0101CR | 1104 | S26 | 1104 | S-305 | 2041 | S1512 | 2009 |
| RT-112 | 2038 | RT5911 | 1104 | RVD4B265J2 | 1104 | S1B0102 | 1104 | S28 | 1104 | S305 | 1114 | S1526 | 2009 |
| RT112 | 2011 | RT5939 | 1123 | RVD10D1 | 1123 | S1B0201CR | 1104 | S30 | 1104 | S-305-PD | 2041 | S1527 | 2009 |
| RT-113 | 2038 | RT6119 | 1123 | RVD10DC1 | 1104 | S1B-0306 | 1114 | S31 | 1104 | S-305A | 2041 | S1529 | 2009 |
| RT114 | 2009 | RT6179 | 1123 | RVD10DC1R | 1104 | S1B | 1104 | S32 | 1104 | S305A | 2041 | S1530 | 2009 |
| RT-119 | 2001 | RT6180 | 1123 | RVD10E1 | 1104 | S1B1 | 1104 | S33 | 1104 | S305D | 2041 | S1533 | 2009 |
| RT-126 | 2034 | RT6181 | 1123 | RVD10E11F | 1104 | S1BD1-02 | 1104 | S34 | 1104 | S-315 | 1104 | S-1533 | 2009 |
| RT-131 | 2041 | RT6182 | 1123 | RVDCD0033 | 561 | S1C | 1114 | S35 | 1104 | S-320F | 1123 | S-1559 | 2009 |
| RT-154 | 2041 | RT6183 | 1123 | RVDDS-410 | 1104 | S1CN1 | 1104 | S36 | 1104 | S353 | 2041 | S1559 | 2009 |
| RT-159 | 2012 | RT6184 | 1123 | RVDEQA0106S | 561 | S1D | 1114 | S40 | 1104 | S-356 | 2041 | S1568 | 2009 |
| RT159 | 2012 | RT6189 | 1123 | RVDKB162C5 | 1104 | S1D50B861-A | 1102 | S40A | 1104 | S428 | 1104 | S1570 | 2009 |
| RT-175 | 2036 | FT6204 | 2011 | RVDKB265J2 | 1102 | S1D51C052-19 | 1104 | S43 | 1104 | S431 | 1104 | S1600 | 1104 |
| RT175 | 2035 | RT6322 | 1104 | RVDMZ-206 | 561 | S1D51C169-1 | 1104 | S44 | 1104 | S-500 | 1114 | S1619 | 2009 |
| RT-176 | 2035 | RT6332 | 1104 | RVDMZ209 | 562 | S1L200 | 1104 | S46 | 1104 | S-500B | 1104 | S1620 | 2009 |
| RT176 | 2035 | RT6600MHF25 | 2009 | RVDR5R6EB | 561 | S1R12B | 563 | S47 | 1104 | S-500C | 1104 | S1629 | 2009 |
| RT-210 | 1114 | RT6601 | 2011 | RVDRD11AN | 562 | S1R13B | 563 | S48 | 1104 | S502 | 1102 | S1685 | 2041 |
| RT210 | 1114 | RT6602 | 2011 | RVDRD5R6EB | 561 | S1R20 | 1114 | S49 | 1104 | S502A | 1102 | S1691 | 2041 |
| RT-212 | 1104 | RT6605 | 1104 | RVDSD-1 | 1104 | S1R-80 | 1104 | S61 | 1114 | S502B | 1114 | S1692 | 2041 |
| RT-213 | 1104 | RT6619 | 1123 | RVDSD-1U | 1104 | S1R80 | 1114 | S62 | 1114 | S506 | 1102 | S1761 | 2009 |
| RT213 | 1104 | RT6729 | 1104 | RVDSD-1Y | 1104 | S1RC20 | 1104(2) | S63 | 1114 | S506A | 1102 | S1761A | 2009 |
| RT-214 | 1104 | RT6732 | 2011 | RVDSR3AM2N | 1104 | S1RC20R | 1104 | S65-4-A-3P | 2001 | S506B | 1102 | S1761B | 2009 |
| RT214 | 1104 | RT6733 | 2011 | RVDVD1150L | 1102 | S1S2 | 1102 | S70.01.704 | 2009 | S509 | 1102 | S1761C | 2009 |
| RT-215 | 1104 | RT6787 | 2011 | RVDVD1205M | 1102 | S1S11 | 1123 | S72 | 1104 | S509A | 1102 | S1764 | 2009 |
| RT215 | 1104 | RT6791 | 1104 | RVDVD1210L | 1102 | S1S20 | 1123 | S73 | 1104 | S509B | 1102 | S1765 | 2009 |
| | | RT6921 | 2009 | RVDVD1210M | 1102 | S1SD-1 | 1104 | S74-3-A-3P | 2007 | | | | 2009 |

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| S1766 | 2009 | SA2B | 1104 | SC108B | 2009 | SD-1CUF | 1104 | SD94S | 1104 | SE5-0367 | 2009 | SF195C | 2016 |
| S1768 | 2009 | SA2H | 1114 | SC109A | 2009 | SD1CUF | 1104 | SD-95 | 1104 | SE5-0456 | 1122 | SF195D | 2015 |
| S1770 | 2009 | SA2Z | 1114 | SC-110 | 1104 | SD1DM-4 | 1104 | SD95 | 1104 | SE5-0567 | 2009 | SF196 | 2016 |
| S1772 | 2009 | SA3B | 1104 | SC110 | 1104 | SD-1HF | 1104 | SD-95A | 1104 | SE5-0608 | 2009 | SF197 | 2038 |
| S1784 | 2009 | SA-7 | 2001 | SC148 | 2016 | SD1HF | 1104 | SD95A | 1104 | SE5-0848 | 2009 | SF294 | 2016 |
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| S1801-02 | 1104 | SA310 | 2022 | SC158 | 2034 | SD1L | 1104 | SD96A | 1104 | SE5-0855 | 2009 | SF295 | 2015 |
| S1835 | 2009 | SA311 | 2022 | SC158A | 2034 | SD-1LA | 1104 | SD96S | 1104 | SE5-0887 | 2009 | SF295C | 2016 |
| S1865 | 2041 | SA312 | 2022 | SC158VI | 2034 | SD1LA | 1104 | SD98 | 1114 | SE5-0888 | 2009 | SF295D | 2015 |
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| S1878 | 2031 | SA314 | 2022 | SC159A | 2034 | SD-1UF | 1104 | SD98S | 1114 | SE5-0966 | 1102 | SF314 | 2016 |
| S1891 | 2009 | SA315 | 2022 | SC258 | 2034 | SD-1X | 1104 | SD100 | 1102 | SE6 | 1104 | SF334 | 2016 |
| S1891A | 2009 | SA316 | 2022 | SC258A | 2034 | SD1X | 1104 | SD-101 | 1104 | SE30B26A | 1104 | SF334B | 2016 |
| S1891B | 2009 | SA354B | 2001 | SC258VI | 2034 | SD-1Y | 1104 | SD101 | 1104 | SE46 | 1104 | SF335 | 2016 |
| S1897 | 2011 | SA410 | 2022 | SC259 | 2034 | SD1Y | 1104 | SD102 | 1104 | SE50 | 2013 | SF335C | 2016 |
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| S1905A | 2041 | SA412 | 2022 | SC305 | 1104 | SD1ZHF | 1104 | SD104 | 1104 | SE1001 | 2013 | SF1001 | 2009 |
| S1907 | 2041 | SA413 | 2022 | SC350 | 2009 | SD2 | 1114 | SD105 | 562 | SE1001-1 | 2013 | SF1713 | 2009 |
| S1955 | 2009 | SA414 | 2022 | SC741T | 007 | SD2A | 1104 | SD-109 | 2009 | SE1001-2 | 2013 | SF1714 | 2009 |
| S1993 | 2009 | SA415 | 2022 | SC785 | 2009 | SD2B | 1104 | SD109 | 2009 | SE-1002 | 2009 | SF1726 | 2009 |
| S2003-1 | 2041 | SA416 | 2022 | SC821 | 561 | SD2C | 1114 | SD-110 | 1102 | SE-1010 | 2011 | SF1730 | 2009 |
| S2020 | 2011 | SA537 | 2022 | SC821A | 561 | SD4 | 1104 | SD110 | 1102 | SE1010 | 2015 | SFB6183 | 1104 |
| S2034 | 2009 | SA538 | 2021 | SC823 | 561 | SD-5 | 1102 | SD-150 | 1123 | SE-1331 | 2009 | SFD43 | 1102 |
| S2043 | 2009 | SA539 | 2022 | SC823A | 561 | SD5 | 1104 | SD165 | 1102 | SE1331 | 2009 | SFD83 | 1102 |
| S2044 | 2009 | SA540 | 2021 | SC825 | 561 | SD-5(PHILCO) | 1102 | SD-201 | 1104 | SE1730 | 1114 | SFD107 | 1123 |
| S2045 | 2009 | SA821 | 561 | SC825A | 561 | SD6 | 1104 | SD201 | 1104 | SE-2001 | 2009 | SFD111 | 1123 |
| S-2064-G | 1122 | SA821A | 561 | SC827 | 561 | SD-6AUF | 1114 | SD202 | 1104 | SE2001 | 2016 | SFD112 | 1123 |
| S2085 | 1123 | SA823 | 561 | SC827A | 561 | SD-7 | 1102 | SD282A | 1101 | SE2020 | 2011 | SFE145 | 2035 |
| S2087G | 1102 | SA823A | 561 | SC829 | 561 | SD7 | 1102(2) | SD-404 | 1101 | SE2397 | 2011 | SFR135 | 1104 |
| S2090 | 2009 | SA825 | 561 | SC829A | 561 | SD-7(PHILCO) | 1102(2) | SD-470 | 1104 | SE2401 | 2009 | SFR151 | 1104 |
| S2121 | 2009 | SA825A | 561 | SC-832 | 2009 | SD7(RECT) | 1114 | SD470 | 1104 | SE2402 | 2009 | SFR152 | 1104 |
| S2122 | 2009 | SA827 | 561 | SC832 | 2009 | SD8 | 1114 | SD500 | 1102 | SE3001 | 2038 | SFR153 | 1104 |
| S2123 | 2009 | SA827A | 561 | SC842 | 2009 | SD-8(PHILCD) | 562 | SD500C | 1104 | SE3002 | 2038 | SFR154 | 1104 |
| S2124 | 2009 | SA829 | 561 | SC1001 | 2009 | SD10 | 1104 | SD501 | 1104 | SE-3033 | 2041 | SFR155 | 1104 |
| S2131 | 2011 | SA829A | 561 | SC1010 | 2009 | SD-12 | 1123 | SD600 | 1102 | SE3033 | 2041 | SFR156 | 1104 |
| S2132 | 2011 | SA-93792 | 1102 | SC-1016 | 1122 | SD12 | 1123 | SD600C | 1104 | SE3035 | 2041 | SFR164 | 1104 |
| S2133 | 2011 | SA-93794 | 562 | SC1168G | 2009 | SD12(PHILCO) | 1102 | SD-630 | 1102 | SE3036 | 2041 | SFR251 | 1104 |
| S2134 | 2011 | SAW-1S1941 | 1104 | SC1168H | 2009 | SD12B | 1123 | SD630 | 1102 | SE3100 | 2038 | SFR252 | 1104 |
| S2171 | 2009 | SAW-1S1944 | 1104 | SC1229G | 2009 | SD12E | 1123 | SD-632 | 562 | SE-3646 | 2009 | SFR253 | 1104 |
| S2172 | 2009 | SAW-2SC372GR | 2009 | SC1414 | 1104 | SD12M | 1123 | SD632 | 562 | SE3646 | 2016 | SFR254 | 1104 |
| S2225 | 2009 | SAW-2SC372Y | 2009 | SC1431 | 1104 | SD-13 | 1104 | SD632(10) | 562 | SE-4001 | 2009 | SFR255 | 1104 |
| S2241 | 2041 | SAW-2SC945R | 2009 | SC1431(GE) | 1102 | SD13 | 1104 | SD701-02 | 1102 | SE4001 | 2013 | SFR256 | 1104 |
| S2392 | 2041 | SB01 | 1104 | SC1631 | 1104 | SD-13(PHILCO) | 1123 | SD800 | 1114 | SE-4002 | 2009 | SFR258 | 1114 |
| S2397 | 2009 | SB01-02 | 1102 | SC1631(GE) | 1104 | SD-14 | 1123 | SD838 | 1101 | SE4002 | 2009 | SFR264 | 1104 |
| S2403B | 2041 | SB-03 | 1104 | SC4010 | 2009 | SD14 | 1123 | SD910 | 1114 | SE-4010 | 2009 | SFR266 | 1104 |
| S2403C | 2041 | SB1-01-04 | 1104 | SC-4044 | 2009 | SD-15 | 562 | SD910A | 1114 | SE4010 | 2009 | SFR268 | 1114 |
| S2471 | 2041 | SB-1Z | 1104 | SC4044 | 2009 | SD15 | 1123 | SD910S | 1114 | SE4172 | 2013 | SFT104 | 1123 |
| S2581 | 2009 | SB2C | 1114 | SC4116 | 1104 | SD-16 | 1123 | SD950 | 1104 | SE5001 | 2016 | SFT108 | 1123 |
| S2582 | 2009 | SB2CH | 1114 | SC4131-1 | 2009 | SD16 | 1123 | SD974 | 1102 | SE5002 | 2016 | SFT184 | 2001 |
| S2590 | 2009 | SB-3 | 1104 | SC-4244 | 2009 | SD-16A | 1104 | SD1074 | 2015 | SE5003 | 2016 | SFT223 | 2007 |
| S2593 | 2009 | SB-3-02 | 1104 | SC5175G | 007 | SD-16D | 1104 | SD1101 | 1104 | SE-5006 | 2009 | SFT226 | 2007 |
| S-2617 | 2011 | SB-3F01 | 1104 | SCA05 | 1104 | SD-18 | 1104 | SD1102 | 1104 | SE5006 | 2016 | SFT227 | 2007 |
| S2617(UHF) | 2011 | SB-3N | 1104 | SCA1 | 1104 | SD18 | 1104 | SD1103 | 1104 | SE5010 | 2016 | SFT228 | 2007 |
| S2635 | 2009 | SB5 | 2041 | SCA2 | 1104 | SD21A | 1123 | SD1104 | 1104 | SE5015 | 2016 | SFT229 | 2007 |
| S2636 | 2009 | SB6 | 2041 | SCA3 | 1104 | SD23 | 1104 | SDD421 | 2009 | SE5020 | 2015 | SFT237 | 2007 |
| S2741 | 2041 | SB7 | 2041 | SCA4 | 1104 | SD-27 | 562 | SDD820 | 2011 | SE5021 | 2015 | SFT251 | 2007 |
| S2935 | 2009 | SB100 | 2003 | SCA5 | 1104 | SD-33 | 563 | SDD821 | 2009 | SE5022 | 2015 | SFT252 | 2007 |
| S2944 | 2009 | SB200 | 2003 | SCA6 | 1104 | SD33 | 563 | SDD3000 | 2009 | SE5023 | 2015 | SFT253 | 2007 |
| S2984 | 2009 | SB302 | 1104 | SCA8 | 1114 | SD-34 | 1102 | SDH-2 | 1123 | SE5024 | 2015 | SFT259 | 2001 |
| S2985 | 2009 | SB-309A | 1104 | SCA10 | 1114 | SD34 | 1123 | SOH-2HC | 1123 | SE5025 | 2016 | SFT260 | 2001 |
| S2989 | 2009 | SB-309C | 1104 | SCA1103 | 1104 | SD-43 | 1102 | SDR-25 | 1104 | SE5029 | 2016 | SFT261 | 2001 |
| S2996 | 2009 | SB315 | 1104 | SCA3022 | 2038 | SD43 | 1102 | SDR25 | 1104 | SE5030A | 2009 | SFT288 | 2007 |
| S2997 | 2009 | SB332 | 1104 | SCA3238 | 2038 | SD45 | 1104 | SDS-113 | 1104 | SE5030B | 2009 | SFT-298 | 2001 |
| S2998 | 2009 | SB333 | 1104 | SCA3239 | 2038 | SD-46 | 1123 | SDS113 | 1104 | SE5031 | 2016 | SFT298 | 2001 |
| S2999 | 2009 | SB393 | 1104 | SCA3240 | 2038 | SD46 | 1123 | SDT3766 | 1123 | SE5032 | 2016 | SFT-307 | 2007 |
| S3004-1715 | 561 | SB821 | 561 | SCBR05F | 1114 | SD46(4) | 1123 | SDT3825 | 2040 | SE5036 | 2038 | SFT-319 | 2007 |
| S3004-1716 | 1102 | SB821A | 561 | SCBR1F | 1114 | SD-46-2 | 1123 | SDT3827 | 2040 | SE5040 | 2016 | SFT713 | 2009 |
| S3004-1718 | 561 | SB823 | 561 | SCBR6F | 1114 | SD46-2 | 1123 | SDT3875 | 2040 | SE5050 | 2015 | SFT714 | 2009 |
| S3016 | 1102 | SB823A | 561 | SCD-T320 | 2041 | SD46R | 1123 | SDT3877 | 2040 | SE5051 | 2015 | SFZ716 | 563 |
| S-3016R | 1102 | SB825 | 561 | SCD-T322 | 2009 | SD-51 | 1101 | SDT9201 | 2041 | SE5052 | 2015 | SF.T171 | 2007 |
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| S3030G | 1123 | SB827 | 561 | SCE1 | 1104 | SD53 | 563 | SDT9206 | 2041 | SE5056 | 2016 | SF.T173 | 2007 |
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| S3603G | 1123 | SB829 | 561 | SCE3 | 1104 | SD56 | 1123 | SDT9261 | 2041 | SE-6001 | 2009 | SF.T184 | 2001 |
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| S3771 | 2041 | SB1000 | 1104 | SCE8 | 1114 | SD-80 | 1104 | SDT9304 | 2041 | SE7056 | 2008 | SG-005 | 1104 |
| S3776B | 1123 | SBR-260 | 1104 | SCE10 | 1114 | SD80 | 1104 | SDT9305 | 2041 | SE8001 | 2012 | SG005 | 1104 |
| S3885G | 1123 | SC05 | 1104 | SCO5 | 1104 | SD82 | 1101 | SDT9307 | 2041 | SE8040 | 2009 | SG-105 | 1104 |
| S4001 | 1104 | SC05E | 1104 | SCO5E | 1104 | SD-82A | 1101 | SDT9308 | 2041 | SE9002 | 2041 | SG105 | 1104 |
| S5089-A | 1104 | SC1 | 1104 | SCP5E | 1104 | SD82A | 1101 | SD-Y | 1104 | SE9080 | 2041 | SG-205 | 2041 |
| S6005 | 1104 | SC2 | 1104 | SCT1 | 1114 | SD82AG | 1101 | SE0001 | 2013 | SELEN-44 | 1114 | SG205 | 1104 |
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| S9631 | 2009 | SC4 | 1104 | SCT3 | 1114 | SD91 | 1104 | SE0 | 1114 | SELEN-701 | 1104 | SG305 | 1104 |
| S15649 | 2009 | SC-6 | 1123 | SCT4 | 1114 | SD-91A | 1104 | SE-05 | 1104 | SES632 | 2041 | SG323 | 1104 |
| S15657 | 2016 | SC6 | 1104 | SCT5 | 1114 | SD91A | 1104 | SE05 | 1104 | SES881 | 2041 | SG505 | 1104 |
| S15658 | 2016 | SC8 | 1114 | SD-02 | 1104 | SD-91S | 1104 | SE-05-01 | 1104 | SES3819 | 2035 | SG709CT | 017 |
| S-21271 | 1123 | SC8A | 1114 | SD05 | 1114 | SD91S | 1104 | SE-05-02 | 1104 | SF1 | 1114 | SG723CD | 1740 |
| S21271 | 1123 | SC10 | 1114 | SD07 | 1104 | SD-92 | 1104 | SE-05-2 | 1104 | SF1CN1 | 1114 | SG723CN | 1740 |
| S21648 | 2011 | SC10A | 1114 | SD040 | 1104 | SD92 | 1104 | SE-05A | 1104 | SF3CN1 | 1114 | SG741CD | 010 |
| S22543 | 2009 | SC12(DIODE) | 1102 | SD1 | 1104 | SD-92A | 1104 | SE05B | 1104 | SF4 | 1114 | SG741CN | 010 |
| S24591 | 2009 | SC-16 | 1104 | SD-1-1 | 1104 | SD92A | 1104 | SE05C | 1114 | SF4CN1 | 1114 | SG741CT | 007 |
| S24596 | 2009 | SC16 | 1104 | SD1-1 | 1104 | SD-92S | 1104 | SE05D | 1104 | SF5 | 1114 | SG805 | 1104 |
| S29445 | 2009 | SC20 | 1123 | SD-1-211B | 1104 | SD-93 | 1104 | SE05S | 1104 | SF6 | 1114 | SG-805 | 1104 |
| S32550 | 2009 | SC23-3 | 1104 | SD1-211B | 1104 | SD93 | 1104 | SE05SS | 1104 | SF115 | 2016 | SG1198 | 1104 |
| S34540 | 2009 | SC23-9 | 1104 | SD-1-211C | 1104 | SD-93A | 1104 | SE-05X | 1104 | SF115A | 2016 | SG-1198 | 1104 |
| S36999 | 2009 | SC43 | 2007 | SD1-211C | 1104 | SD93A | 1104 | SE-0566 | 2009 | SF115B | 2016 | SG3182 | 1102 |
| S40545 | 2011 | SC44 | 2007 | SD1-Z | 1104 | SD93S | 1104 | SE0S-01 | 1104 | SF115C | 2016 | SG3183 | 1102 |
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| S88576 | 1101 | SC54 | 1123 | SD1A | 1104 | SD94 | 1104 | SE-2 | 1104 | SF115E | 2013 | SG3400 | 1104 |
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| S1977634 | 2041 | SC65 | 2009 | SD-1AUF | 1102 | SD94A | 1104 | SE5-0128 | 1104 | SF173 | 2038 | SG3516 | 1102 |
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| SA2 | 1104 | SC108 | 2016 | SD1C | 1104 | SD94AB | 1104 | SE5-0253 | 2009 | SF194B | 2016 | SG5028 | 1102 |
| SA-2B | 1104 | SC108A | 2016 | SD-1C-4F | 1104 | SD94B | 1104 | SE5-0274 | 2009 | SF195 | 2015 | SG5392 | 1102 |
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| SG9150 | 1102 | SI-RECT-136 | 1114 | SKA1395 | 2009 | SLA547 | 1104 | SM220 | 1104 | SP82A | 1101 | SPS4169 | 2009 |
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| SGR100 | 1104 | SI-RECT-140/TR-6 | 561 | SKA-4075 | 2011 | SLA561 | 1114 | SM240 | 1104 | SP4231 | 2041 | SPS4303 | 2009 |
| SH-1 | 1104 | SI-RECT-140/TR6S | 561 | SKA4141 | 2009 | SLA599 | 1104 | SM250 | 1104 | SP7056 | 2012 | SPS4313 | 2009 |
| SH1 | 1104 | SI-RECT-144 | 1104 | SKA-6256 | 2009 | SLA599A | 1104 | SM260 | 1104 | SPC40 | 2009 | SPS4345 | 2009 |
| SH-1A | 1104 | SI-RECT-152 | 1102 | SKA-6437 | 2009 | SLA600 | 1104 | SM270 | 1114 | SPC42 | 2009 | SPS4347 | 2009 |
| SH1A | 1104 | SI-RECT-204 | 1114 | SKA-8105 | 2009 | SLA600A | 1104 | SM280 | 1114 | SPC50 | 2009 | SPS4356 | 2009 |
| SH1B | 1114 | SI-RECT-218 | 1104 | SKB8339 | 2009 | SLA601 | 1104 | SM300 | 1114 | SPC51 | 2009 | SPS4359 | 2009 |
| SH1C | 1114 | SI-RECT-220 | 1104 | SL-030 | 1104 | SLA601A | 1104 | SM483 | 1104 | SPC52 | 2009 | SPS4360 | 2009 |
| SH-1DE | 1104 | SI-RECT-222 | 1104 | SL030/3490 | 1104 | SLA602 | 1104 | SM486 | 1104 | SPD-80062 | 2041 | SPS4363 | 2009 |
| SH-1S | 1104 | SI-RECT-226 | 1104 | SL030S | 1104 | SLA602A | 1104 | SM487 | 1104 | SPN-01 | 1104 | SPS4367 | 2009 |
| SH1S | 1104 | SI-RECT-228 | 563 | SL-030T | 1104 | SLA603 | 1104 | SM488 | 1104 | SPN01 | 1104 | SPS4368 | 2009 |
| SH4D05 | 1104 | SI-RECT-230 | 563 | SL030T | 1104 | SLA603A | 1104 | SM505 | 1104 | SPS-41 | 2009 | SPS4382 | 2009 |
| SH4D1 | 1104 | SIR-RECT-44 | 1104 | SL0305,T | 1104 | SLA604 | 1104 | SM510 | 1104 | SPS41 | 2009 | SPS4446 | 2009 |
| SH4D2 | 1104 | SIS2 | 1123 | SL07040 | 017 | SLA604A | 1104 | SM512 | 1104 | SPS43-1 | 2011 | SPS4450 | 2009 |
| SH4D3 | 1104 | SIS11 | 1123 | SL07055 | 017 | SLA605 | 1104 | SM513 | 1104 | SPS429 | 2011 | SPS4451 | 2009 |
| SH4D4 | 1104 | SIS20 | 1123 | SL08066 | 017 | SLA605A | 1104 | SM514 | 1104 | SPS816 | 2011 | SPS4453 | 2009 |
| SH4D6 | 1104 | SISD-1HF | 1114 | SL08797 | 010 | SLA606 | 1104 | SM515 | 1104 | SPS817 | 2009 | SPS4455 | 2009 |
| SH4D8 | 1114 | SISD-1X | 1104 | SL-2 | 1104 | SLA606A | 1104 | SM516 | 1104 | SPS817N | 2009 | SPS4456 | 2009 |
| SH15 | 1104 | SISD-K | 1104 | SL2 | 1104 | SLA1095 | 1104 | SM517 | 1114 | SPS-856 | 2011 | SPS4457 | 2009 |
| SH1064 | 2009 | SISM-150-01 | 1104 | SL-3 | 1104 | SLA1096 | 1104 | SM518 | 1114 | SPS856 | 2011 | SPS4459 | 2009 |
| SHAD-1 | 1104 | SISW-05-02 | 1104 | SL3 | 1104 | SLA1100 | 1104 | SM520 | 1114 | SPS-860 | 2011 | SPS4472 | 2009 |
| SHAD1 | 1104 | SISW-0502 | 1104 | SL-4 | 1104 | SLA1101 | 1104 | SM576-1 | 2009 | SPS860 | 2011 | SPS4476 | 2009 |
| SI-05A | 1114 | SJ051E | 1104 | SL-5 | 1104 | SLA1102 | 1104 | SM576-2 | 2009 | SPS868 | 2009 | SPS4478 | 2009 |
| SI-1A | 1114 | SJ051F | 1104 | SL5 | 1104 | SLA1104 | 1104 | SM645 | 1104 | SPS907 | 2009 | SPS4491 | 2009 |
| SI-2A | 1114 | SJ052E | 1104 | SL91 | 1104 | SLA1105 | 1104 | SM646 | 1104 | SPS-934 | 2009 | SPS4493 | 2009 |
| SI-3A | 1114 | SJ052F | 1104 | SL92 | 1104 | SLA1487 | 1104 | SM705 | 1104 | SPS-952-2 | 2014 | SPS4494 | 2009 |
| SI-4A | 1114 | SJ60F | 1104 | SL93 | 1104 | SLA1488 | 1104 | SM710 | 1104 | SPS1045 | 2009 | SPS4498 | 2009 |
| SI-5A | 1114 | SJ102F | 1104 | SL103 | 1102 | SLA1489 | 1104 | SM-716 | 2009 | SPS-1473RT | 2011 | SPS4920 | 2009 |
| SI-6A | 1114 | SJ201F | 1104 | SL300 | 2009 | SLA1490 | 1104 | SM716 | 2009 | SPS-1475 | 2009 | SPS4942 | 2009 |
| SI-7A | 1114 | SJ202F | 1104 | SL301A | 2038 | SLA1491 | 1104 | SM720 | 1104 | SPS1475 | 2009 | SPS5000 | 2009 |
| SI-8A | 1114 | SJ301F | 1104 | SL301AE | 2038 | SLA1492 | 1104 | SM730 | 1104 | SPS-1475(YT) | 2031 | SPS5006 | 2009 |
| SI-10A | 1114 | SJ302F | 1104 | SL301B | 2038 | SLA1692 | 1104 | SM740 | 1104 | SPS-1475YT | 2009 | SPS5006-1 | 2009 |
| SI50E | 1104 | SJ401F | 1104 | SL301BE | 2038 | SLA1693 | 1104 | SM750 | 1104 | SPS-1539WT | 2032 | SPS5006-2 | 2009 |
| SI91G | 1104 | SJ402F | 1104 | SL301C | 2012 | SLA1694 | 1104 | SM760 | 1104 | SPS1593WT | 2032 | SPS5457 | 2009 |
| SI100E | 1104 | SJ501F | 1104 | SL301CE | 2012 | SLA1695 | 1104 | SM770 | 1114 | SPS2164 | 2009 | SPS5569 | 2011 |
| SI1000E | 1114 | SJ-570 | 2009 | SL301E | 2038 | SLA1696 | 1104 | SM780 | 1114 | SPS2167 | 2011 | SPS6111 | 2009 |
| SIB-01-02 | 1104 | SJ570 | 2009 | SL301EE | 2038 | SLA1697 | 1104 | SM800 | 1114 | SPS2224 | 2011 | SPS6112 | 2009 |
| SIB01-06 | 1104 | SJ601F | 1104 | SL303AE | 2038 | SLA2610 | 1104 | SM2700 | 2009 | SPS2225 | 2009 | SPS6113 | 2009 |
| SIB01-06B | 1104 | SJ619 | 2041 | SL303AT | 2038 | SLA2611 | 1104 | SM2701 | 2009 | SPS-2265 | 2011 | SPS6571 | 2009 |
| SIB-01-022 | 1104 | SJ619-1 | 2041 | SL303BE | 2038 | SLA2612 | 1104 | SM3104 | 2009 | SPS-2266 | 2011 | SPS6682 | 2011 |
| SIB02-03C | 1104 | SJ820 | 2041 | SL303BT | 2038 | SLA2613 | 1104 | SM3117A | 2009 | SPS2270 | 2009 | SPS7652 | 2009 |
| SIB02-03CR | 1104 | SJ1106 | 2041 | SL354BE | 2038 | SLA2614 | 1104 | SM3505 | 2009 | SPS3015 | 2009 | SPT3713 | 2041 |
| SIB02-CR | 1104 | SJ1470 | 2041 | SL354BF | 2038 | SLA2615 | 1104 | SM3986 | 2009 | SPS3735 | 2009 | SQ7 | 2001 |
| SIB02-CR1 | 1102(2) | SJ2000 | 2041 | SL608 | 1114 | SLA2616 | 1114 | SM4304-S | 2013 | SPS3751 | 2009 | SQ46 | 1123 |
| SIB0102 | 1104 | SJ2008 | 2041 | SL610 | 1114 | SLA2617 | 1114 | SM-4508-B | 2009 | SPS3787 | 2011 | SQD-2170 | 2009 |
| SIB0201CR | 1104 | SJ3464 | 2041 | SL708 | 1114 | SLA3193 | 1104 | SM4508-B | 2009 | SPS3900 | 2009 | SR0004 | 1102(2) |
| SIB-0306 | 1114 | SJ3604 | 2041 | SL710 | 1114 | SLA3194 | 1104 | SM5379 | 2009 | SPS3907 | 2009 | SR-05K-2 | 1104 |
| SIB0L-02 | 1104 | SJ3678 | 2041 | SL-833 | 1104 | SLA3195 | 1104 | SM-5564 | 2009 | SPS3908 | 2009 | SR05K-2 | 1104 |
| SIB0L | 1104 | SJ8701 | 2041 | SL833 | 1104 | SLA3196 | 1114 | SM5564 | 2009 | SPS3909 | 2009 | SR-1 | 1104 |
| SIB1 | 1104 | SJ9110 | 2041 | SL-833A | 1104 | SM07275 | 2009 | SM-5643 | 2009 | SPS3915 | 2009 | SR1-2 | 1104 |
| SIB-C1-02 | 1102 | SK-1B | 1104 | SL833A | 1104 | SM-1 | 1104 | SM5643 | 2009 | SPS3923 | 2009 | SR1-K2 | 1104 |
| SID01E | 1104 | SK1FM | 1104 | SL918 | 2038 | SM-1-005 | 1104 | SM5981 | 2009 | SPS3925 | 2009 | SR1A-1 | 1104 |
| SID01K | 1114 | SK1K-2 | 1104 | SL3693 | 2038 | SM-1-02 | 1104 | SM6762 | 2031 | SPS3926 | 2009 | SR1A1 | 1104 |
| SID01L | 1104 | SK-1WS0 | 1123 | SL7990 | 2009 | SM-1-47 | 1104 | SM6773 | 2009 | SPS3930 | 2009 | SR1A-2 | 1104 |
| SID02E | 1104 | SK-7 | 2001 | SL20927 | 017 | SM-1K | 1104 | SM7545 | 2009 | SPS3936 | 2009 | SR1A2 | 1104 |
| SID02K | 1114 | SK7 | 2001 | SL20929 | 007 | SM4 | 1104 | SM-7815 | 2009 | SPS3938 | 2009 | SR1A-4 | 1104 |
| SID02L | 1104 | SK-218 | 1114 | SL21385 | 1740 | SM5 | 1104 | SM7815 | 2009 | SPS3940 | 2009 | SR1A-8 | 1104 |
| SID50B851 | 1102 | SK19 | 2035 | SL21673 | 007 | SM-10 | 1104 | SM-7836 | 2009 | SPS3951 | 2009 | SR1A8 | 1104 |
| SID51C169 | 1104 | SK1640A | 2009 | SL21923 | 017 | SM10 | 1104 | SM7836 | 2009 | SPS3957C | 2009 | SR1A-12 | 1104 |
| SID50894 | 1102 | SK1641 | 2009 | SL22310 | 1740 | SM11 | 1104 | SM8112 | 2009 | SPS3967 | 2009 | SR1A12 | 1104 |
| SIG1/200 | 1104 | SK3005 | 2007 | SL22935 | 1740 | SM20 | 1104 | SM8113 | 2009 | SPS3972 | 2009 | SR1D1M | 1104 |
| SIG1/600 | 1104 | SK3010 | 2001 | SL23324 | 017 | SM30 | 1104 | SM8978 | 2009 | SPS3973 | 2009 | SR1D1M1 | 1104 |
| SIL-200 | 1104 | SK3011 | 2001 | SL23325 | 1740 | SM31 | 1104 | SM9008 | 2009 | SPS3999 | 2009 | SR1DM | 1104 |
| SIL200 | 1104 | SK3016 | 1104 | SL23326 | 010 | SM40 | 1104 | SM9135 | 2009 | SPS4003 | 2009 | SR1DM-1 | 1104 |
| SIR-80 | 1104 | SK3017 | 1104 | SL23482 | 017 | SM50 | 1104 | SM9253 | 2009 | SPS4004 | 2009 | SR1DM1 | 1104 |
| SI-REC-73 | 2009 | SK3017A | 1104 | SL23486 | 007 | SM51 | 1104 | SM-A-595830-12 | 2011 | SPS4006 | 2009 | SR1DM-2 | 1104 |
| SI-RECT-044 | 1104 | SK3020 | 1104 | SLA01 | 1114 | SM60 | 1104 | SM-A-726655 | 2009 | SPS4009 | 2009 | SR1DMX | 1104 |
| SI-RECT-2 | 1104 | SK3030 | 1104 | SLA11AB | 1104 | SM70 | 1114 | SM-A-726664 | 2009 | SPS4017 | 2009 | SR1E | 1104 |
| SIRECT-2 | 1104 | SK3031 | 1104 | SLA11C | 1104 | SM71 | 1114 | SMB-541191 | 1102 | SPS4020 | 2009 | SR1EM | 1104 |
| SI-RECT-20 | 1104 | SK3038 | 2009 | SLA12AB | 1104 | SM73(DIODE) | 1114 | SM-B-610342 | 2009 | SPS4029 | 2009 | SR1EM-1 | 1104 |
| SI-RECT-25 | 1104 | SK3040 | 2008 | SLA12C | 1104 | SM80 | 1114 | SM-B-686767 | 2009 | SPS4032 | 2009 | SR1EM1 | 1104 |
| SI-RECT-27 | 1104 | SK3046 | 2009 | SLA13AB | 1104 | SM81 | 1114 | SM-C-583256 | 2009 | SPS4037 | 2009 | SR1EM-2 | 1104 |
| SI-RECT-33 | 1104 | SK3058 | 561 | SLA13C | 1104 | SM83 | 1114 | SM-C-706156 | 1122 | SPS4039 | 2009 | SR1EM2 | 1104 |
| SI-RECT-34 | 1104 | SK3060 | 562 | SLA14AB | 1104 | SM100 | 1114 | SMC750123-1 | 007 | SPS4040 | 2009 | SR1EM-X | 1104 |
| SI-RECT-35 | 1102 | SK3062 | 563 | SLA14C | 1104 | SM101 | 1114 | SN0303 | 1104 | SPS4041 | 2009 | SR1FM | 1104 |
| SIRECT-36 | 1104 | SK3063 | 564 | SLA15AB | 1104 | SM103 | 1114 | SN-1 | 1104 | SPS4042 | 2009 | SR1FM-1 | 1104 |
| SI-RECT-37 | 1104 | SK3081 | 1114 | SLA15C | 1104 | SM105 | 1104 | SN1 | 1104 | SPS4044 | 2009 | SR1FM4 | 1104 |
| SI-RECT-39 | 1104 | SK3087 | 1123 | SLA16AB | 1104 | SM110 | 1104 | SN-1Z | 1104 | SPS4045 | 2009 | SR1FM-8 | 1104 |
| SI-RECT-48 | 1104 | SK3088 | 1123 | SLA16C | 1104 | SM120 | 1104 | SN60 | 2016 | SPS4049 | 2009 | SR1FM10 | 1104 |
| SIRECT-48 | 1104 | SK3089 | 1101 | SLA17AB | 1104 | SM130 | 1104 | SN80 | 2001 | SPS4052 | 2009 | SR1FM12 | 1104 |
| SI-RECT-49 | 1104 | SK3090 | 1123 | SLA17C | 1104 | SM140 | 1104 | SN72558 | 038 | SPS4053 | 2009 | SR1FM20 | 1114 |
| SI-RECT-53 | 1104 | SK3091 | 1123 | SLA18AB | 1114 | SM-150 | 1114 | SN72558P | 038 | SPS4055 | 2009 | SR1FMA | 1104 |
| SI-RECT-59 | 1104 | SK3100 | 1102 | SLA18C | 1114 | SM150 | 1114 | SN72709L | 017 | SPS4059 | 2009 | SR-1HM-2 | 1104 |
| SIRECT-59 | 1104 | SK3112 | 2035 | SLA19AB | 1114 | SM-150-005 | 1114 | SN72741L | 007 | SPS4060 | 2009 | SR-1HM-2 | 1104 |
| SI-RECT-69 | 1104 | SK3116 | 2035 | SLA19C | 1114 | SM150-01 | 1114 | SN72741N | 010 | SPS4061 | 2009 | SR-1HM-4 | 1104 |
| SI-RECT-73 | 1104 | SK3117 | 2038 | SLA440 | 1104 | SM-150-02 | 1114 | SN76177 | 702 | SPS4062 | 2009 | SR-1HM-12 | 1104 |
| SI-RECT-74 | 1104 | SK3122 | 2009 | SLA440B | 1104 | SM150-02 | 1114 | SN76177ND | 702 | SPS4063 | 2009 | SR-1HM-16 | 1104 |
| SI-RECT-75 | 1104 | SK3124 | 2010 | SLA441 | 1104 | SM150-6 | 1114 | SNO303 | 1104(2) | SPS4066 | 2009 | SR1K08 | 1104 |
| SI-RECT-77 | 1104 | SK3165 | 1740 | SLA441B | 1104 | SM-150-11 | 1114 | SNW-Q-2 | 2001 | SPS4067 | 2009 | SR-1K | 1104 |
| SI-RECT-84 | 1104 | SK3174 | 1104 | SLA442 | 1104 | SM-150A | 1114 | SNW-Q-3 | 2001 | SPS4069 | 2009 | SR1K | 1104 |
| SI-RECT-92 | 1104 | SK3183 | 2040 | SLA442B | 1104 | SM150A | 1114 | SNW-Q-5 | 2001 | SPS4074 | 2009 | SR1K/494 | 1104 |
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| SI-RECT-94 | 1104 | SK3510 | 2041 | SLA443B | 1104 | SM150B | 1114 | SO5 | 1104 | SPS4075 | 2009 | SR-1K-2 | 1104 |
| SI-RECT-100 | 1104 | SK3552 | 017 | SLA444 | 1104 | SM150C | 1114 | SO10G | 1114 | SPS4077 | 2009 | SR1K-2 | 1104 |
| SI-RECT-100-102 | 1104 | SK3557 | 038 | SLA444A | 1104 | SM150D | 1114 | SO501 | 1104 | SPS4081 | 2009 | SR1K2 | 1104 |
| SI-RECT-102 | 1104 | SK-3960 | 2009 | SLA444B | 1104 | SM150S | 1114 | SO-632 | 562 | SPS4083 | 2009 | SR1K-2/494 | 1104 |
| SIRECT-102 | 1104 | SK3960 | 2009 | SLA-445 | 1104 | SM150SS | 1114 | SOA | 1114 | SPS4084 | 2009 | SR-1K-2A | 1114 |
| SI-RECT-102A | 1104 | SK5801 | 2009 | SLA445 | 1104 | SM160 | 1104 | SOD200D | 1104 | SPS4085 | 2009 | SR-1K-2B | 1104 |
| SI-RECT-110/SB-3F | 1104 | SK5915 | 2009 | SLA445B | 1104 | SM170 | 1114 | SP-1 | 1104 | SPS4088 | 2009 | SR-1K-2C | 1104 |
| SI-RECT-112 | 1104 | SK8215 | 2009 | SLA536 | 1104 | SM180 | 1114 | SP1 | 1114 | SPS4089 | 2009 | SR-1K-2D | 1114 |
| | | SK8251 | 2009 | SLA537 | 1104 | SM200 | 1114 | SP1K-1 | 1104 | SPS4095 | 2009 | | |
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| SR1K-8 | 1104 | SR1378-1 | 1104 | ST56 | 2009 | SV-02 | 561 | SYL101 | 2001 | T-075 | 1104 | T399 | 2009 |
| SR1K8 | 1104 | SR1378-3 | 1104 | ST57 | 2009 | SV-02(RECTIFIER) | 1104 | SYL-102 | 2001 | T075 | 1104 | T-400 | 1104 |
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| SR1T | 1104 | SR1549 | 1104 | ST59 | 2009 | SV-03 | 1104 | SYL103 | 2001 | T0102 | 2007 | T416-16(SEARS) | 2009 |
| SR-1Z | 1104 | SR-1668 | 1104 | ST63 | 2009 | SV-04 | 1102 | SYL104 | 2001 | T-0150 | 1104 | T417 | 2009 |
| SR1Z | 1114 | SR1668 | 1104 | ST64 | 2009 | SV04 | 1104 | SYL-105 | 2007 | T0150 | 1104 | T-450 | 1104 |
| SR-2 | 1104 | SR1692 | 1104 | ST150 | 2009 | SV-05 | 1104 | SYL105 | 2007 | T1-1A6 | 2009 | T450 | 1104 |
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| SR2A1 | 1104 | SR1694 | 1104 | ST152 | 2009 | SV-3 | 1102 | SYL106 | 2007 | T1G | 1123 | T457-16(SEARS) | 2009 |
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| SR2A-4 | 1104 | SR1731-2 | 1104 | ST155 | 2009 | SV-3C | 1102 | SYL160 | 2007 | T1S18 | 2013 | T460 | 2009 |
| SR2A4 | 1104 | SR1731-3 | 1104 | ST156 | 2009 | SV-8 | 1102 | SYL792 | 2007 | T1S34 | 2035 | T461-16 | 2009 |
| SR2A-8 | 1114 | SR1731-4 | 1104 | ST157 | 2009 | SV-9 | 562 | SYL-1182 | 2009 | T1S55 | 2009 | T461-16(SEARS) | 2009 |
| SR2A8 | 1104 | SR1731-5 | 1104 | ST160 | 2009 | SV9 | 1102 | SYL1182 | 2009 | T1S58 | 2035 | T462 | 2009 |
| SR2A-12 | 1114 | SR1742 | 1104 | ST161 | 2009 | SV-9(ZENER) | 562 | SYL1279 | 2001 | T1S59 | 2035 | T462(SEARS) | 2009 |
| SR2A12 | 1104 | SR1766 | 1104 | ST162 | 2009 | SV30 | 1123 | SYL-1297 | 2001 | T1S88 | 2035 | T472 | 2009 |
| SR-3 | 1104 | SR-1849-1 | 1104 | ST163 | 2009 | SV-31 | 1123 | SYL1297 | 2001 | T1S95 | 2031 | T472(SEARS) | 2009 |
| SR3 | 1104 | SR1984 | 1104 | ST-172 | 2001 | SV-31(DIODE) | 1123 | SYL-1310 | 2001 | T1SDS1K | 1104 | T483(SEARS) | 2009 |
| SR3AM | 1114 | SR2121 | 1104 | ST172 | 2001 | SV135 | 563 | SYL1310 | 2001 | T2G(DIODE) | 1123 | T484(SEARS) | 2009 |
| SR3AM-2 | 1114 | SR2301 | 1104 | ST175 | 2009 | SV138 | 564 | SYL-1311 | 2001 | T2R | 038 | T485(SEARS) | 2009 |
| SR3AM2 | 1104 | SR2301A | 1104 | ST176 | 2009 | SV-138A | 564 | SYL1311 | 2001 | T3/2 | 1104 | T486(SEARS) | 2009 |
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| SR50 | 1104 | SS0007 | 1123 | ST6512 | 2009 | SVM61 | 561 | SYL2131 | 2001 | T22G | 1123 | T1340A3J | 2009 |
| SR60 | 1104 | SS0008 | 1123 | ST22546-1 | 1122 | SVM601 | 561 | SYL-2132 | 2001 | T23 | 1123 | T1340A3K | 2009 |
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| SR-114 | 1104 | SS334 | 1104 | STC-1036 | 2041 | SW-05-005 | 1104 | SYL-2249 | 2007 | T-50 | 1104 | T1474 | 2007 |
| SR-120 | 1104 | SS337 | 1104 | STC1036 | 2041 | SW05-01 | 1104 | SYL-2250 | 2007 | T-78 | 2007 | T1495 | 2009 |
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| | | ST54 | 2009 | | | | | T-065 | 1104 | T386 | 2009 | T2261 | 2007 |

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| TW40 | 1104 | U633 | 1104 | UT25 | 1104 | V-270D1 | 1104 | VR-9.1 | 562 | W1P | 2035 | WG713 | 1102 |
| TW50 | 1104 | U1282 | 2035 | UT26 | 1104 | V297 | 2009 | VR9.1 | 562 | W1R | 1102 | WG851 | 1122 |
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| TW80 | 1114 | U1421 | 2035 | UT-112 | 1104 | V415 | 2013 | VR9.1B | 562 | W2 | 2001 | WG-1010-A | 1102 |
| TW100 | 1114 | U1422 | 2035 | UT112 | 1104 | V417 | 2015 | VR12 | 563 | W10 | 2009 | WG1010A | 1102 |
| TWV | 1104 | U1585E | 2009 | UT116 | 1104 | V435A | 2034 | VR12A | 563 | W16 | 2041 | WG1010A | 1102 |
| TX1N645 | 1104 | U1585F | 2011 | UT221 | 1104 | V-442 | 1104 | VR12B | 563 | W20 | 2009 | WG1010B | 1102 |
| TX1N647 | 1104 | U1585F,H | 2011 | UT222 | 1104 | V442 | 1104 | VR-14 | 564 | W24 | 2009 | WG-1012 | 1102 |
| TX1N3190 | 1104 | U1585H | 2011 | UT223 | 1104 | V655 | 2022 | VR15 | 564 | W29 | 2011 | WG1012. | 1102 |
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| TX-107-3 | 2009 | UA723CA | 1740 | UT345 | 1114 | V50260-10 | 1102 | VS-2SC371-R-1 | 2013 | WD006 | 1104 | WM-063A | 561 |
| TX-107-4 | 2009 | UA740(METAL-CAN) | | UZ6.2 | 561 | V50260-16 | 1123 | VS2SC394-0-1 | 2013 | WD007 | 1104 | WM-063B | 561 |
| TX107-4 | 2009 | UA740CT | 1733 | UZ9.1 | 562 | V50260-36 | 1102 | VS2SC394-Y-1 | 2013 | WD008 | 1104 | WM-063C | 561 |
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| TX107-6 | 2009 | UA741CT | 007 | UZ8712 | 563 | VARIST-5 | 1104 | VS2SC458 | 1104 | WD012 | 1104 | WM-065B | 561 |
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| WO6B | 1104 | WR-061 | 561 | WS200A | 1102 | WV-061B | 561 | WX-065 | 561 | WZ917 | 563 | YAAD019 | 1104 |
| WO-61 | 561 | WR-061A | 561 | WS200B | 1102 | WV-061C | 561 | WX-065A | 561 | WZ-920 | 564 | YAAD020 | 1104 |
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| WO-150 | 564 | WR-063B | 561 | WSD002C | 1102 | WV-063D | 561 | WX-088B | 562 | X16 | 1123 | YEAD032 | 1123 |
| WO-150A | 564 | WR-063C | 561 | WT-061 | 561 | WV-065 | 561 | WX-088C | 562 | X16A545-7 | 2009 | YEAN2SC941 | 2010 |
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| WP-061D | 561 | WR-088A | 562 | WT-063C | 561 | WV-088C | 562 | WX-092A | 562 | X32C5026 | 2009 | YSG-V81-2-3 | 1102(2) |
| WP-063 | 561 | WR-088B | 562 | WT-063D | 561 | WV-088D | 562 | WX-092B | 562 | X32C5198 | 2009 | YSG-V139-2-2 | 1123 |
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134

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# QUICK REFERENCE: CASE STYLE

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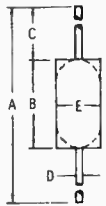
MAY SHOW COLOR BANDS TO DENOTE POLARITY.

## A3

## DO41

.1.10 MIN .160 .205 1.10 MIN

.028 .034

.028 .034

.080 .107

## M532A

.167 .137

.425 TYP

.600

300 TYP

1.00 MIN

.043 .037

.600

.200

## M548

2 TYP

.025 DIA

.32 DIA

2 MIN

1
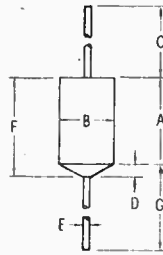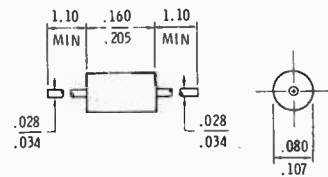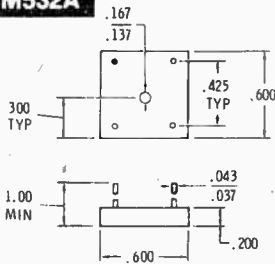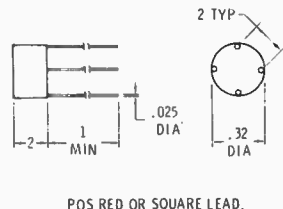
POS RED OR SQUARE LEAD.

## MU27

.390 .420

.110 .120

.240 .260

M DIA.

1
2
3
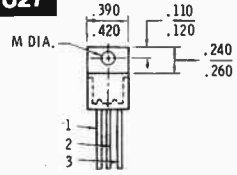
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|---|---|---|
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| PIN 2 | ANODE | ANODE 2 |
| PIN 3 | GATE | GATE |

## MU114

.360 .405

.240 .260

.115 .135

.123 .127 DIA.

.050 .070

.480 .520

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.480 .520

1
2
3

.095 .105

.047 .053
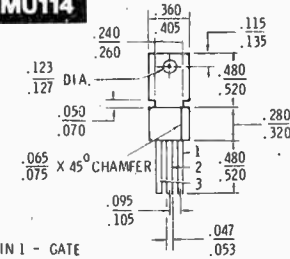
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PIN 2 - ANODE
PIN 3 - CATHODE

## TO1
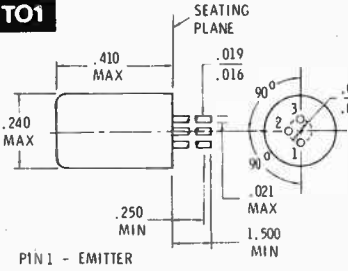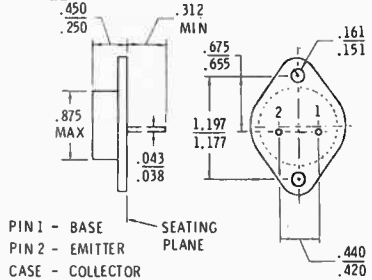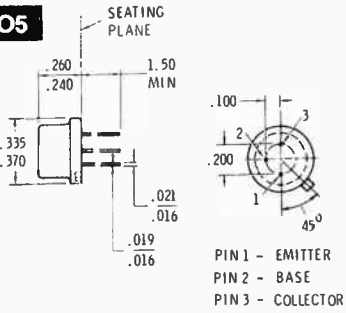
SEATING PLANE

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90°

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.240 MAX

.021 MAX

90°

.250 MIN

1.500 MIN

PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

## TO3

.450 .250

.312 MIN

.161 .151

.675 .655

.875 MAX

1.197 1.177

.043 .038

.440 .420

PIN 1 - BASE
PIN 2 - EMITTER
CASE - COLLECTOR

SEATING PLANE

## TO5

SEATING PLANE

.260 .240

1.50 MIN

.335 .370

.100

.200

2

1

3

45°

.021 .016

.019 .016

PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

## TO39

.240 .260

.500 MIN

.210 .190

90°

3

.350 .370

2

1

90°

45°

SEATING PLANE

PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

## TO44

1.5 MIN

.405 MAX

.064 .080

CENTER LEAD

.240 MAX

2

3

1

.019 .016

SEATING PLANE

PIN 1 - EMITTER
PIN 2 - BASE
PIN 3 - COLLECTOR

## TO72

.170 .210

.500 MIN

SEATING PLANE

.050

.050

3

4

.209 .230

.100

1

2

45°

.030

.016 .021
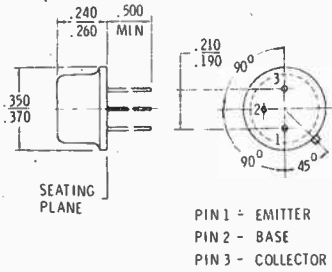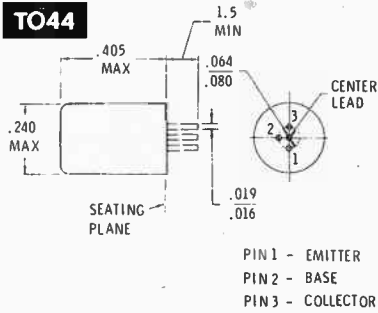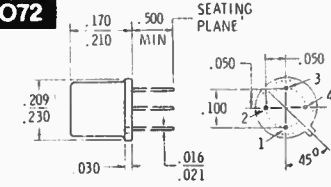
| BIPOLAR TRANSISTORS | FET |
|---|---|
| PIN 1 - EMITTER | PIN 1 - SOURCE |
| PIN 2 - BASE | PIN 2 - DRAIN |
| PIN 3 - COLLECTOR | PIN 3 - GATE |
| PIN 4 - CASE | PIN 4 - CASE |

## TO92

.250 MIN

NOTE 3

.016 .019

.045 .055

.016 .021

3

.080 .105

2

.175

1

.095 .105

.080

.205

.170 .210

.500 MIN

SEATING PLANE

.125 .165
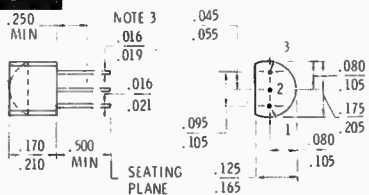
| FET | | | | |
|---|---|---|---|---|
| N-CHANNEL | PIN | P-CHANNEL | SCR | BIPOLAR |
| SOURCE | 1 | SOURCE | 1-CATHODE | PIN 1 - E |
| GATE | 2 | DRAIN | 2-GATE | PIN 2 - B |
| DRAIN | 3 | GATE | 3-ANODE | PIN 3 - C |

## TO92 +

0.185 0.175

0.145 0.135

0.050

0.594

0.090

0.055 0.045

0.055 0.045

0.205 0.195

0.185 0.175

C
B
E

0.018 TYP

0.020 R TYP NOM

0.100

SEATING PLANE

0.090 R NOM

# QUICK REFERENCE: CASE STYLE

## TO220



| BIPOLAR TRANSISTORS | | TRIAC |
|---|---|---|
| PIN 1 - BASE | | PIN 1 - ANODE 1 |
| PIN 2 - COLLECTOR | | PIN 2 - ANODE 2 |
| PIN 3 - EMITTER | | PIN 3 - GATE |

## X55



PIN 1 - B2
PIN 2 - E
PIN 3 - B1

| | A | B | C | D | E |
|---|---|---|---|---|---|
| X55 | .195 .205 | .150 .170 | .180 .190 | .015 | .155 .165 |
| X55c | .200 MAX | .150 | .177 MAX | .062 | .149 MAX |

## 277-1001



## 277-1003



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# MAJOR SEMICONDUCTOR COMPONENTS

| NAME OF DEVICE | CIRCUIT SYMBOL | COMMONLY USED JUNCTION SCHEMATIC | ELECTRICAL CHARACTERISTICS | MAX RATINGS AVAILABLE | MAJOR APPLICATIONS | ROUGHLY ANALOGOUS TO: |
|---|---|---|---|---|---|---|
| Diode or Rectifier | ANODE / CATHODE | ANODE — p / n — CATHODE | $V_{ANODE(-)}$, $V_{ANODE(+)}$ — Conducts easily in one direction, blocks in the other | 1500 Amps 3000 Volts | Rectification Blocking Detecting Steering | Check valve Diode tube Gas diode |
| Avalanche (Zener) Diode | ANODE / CATHODE | ANODE — p / n — CATHODE | $V_{ANODE(-)}$, $V_{ANODE(+)}$ — Constant voltage characteristic in negative quadrant | 22 Volts 1 Watt | Regulation Reference Clipping | V-R tube |
| Integrated Voltage Regulator (IVR) | 3 — IVR — 2 / 1 | 2, 3, 1 (n, p, n) | $I_R$, $\frac{R_{31}}{R_{31}+R_{21}}$, 1, .7, .5, $V_{21}$ — Programmed to desired $V_{21}$ by two resistors | 40 Volts 100 mA 0.4 Watts | Shunt voltage regulator Reference element Error modifier Level sensing Level shifting | Avalanche Diode |
| Tunnel Diode | POSITIVE ELECTRODE / NEGATIVE ELECTRODE | POSITIVE ELECTRODE — p / n — NEGATIVE ELECTRODE | $I_P$, $V_{ANODE(+)}$ — Displays negative resistance when current exceeds peak point current $I_P$ | Peak point current = 100 mA Resistive cutoff freq. = 40 Gc | UHF converter Logic circuits Microwave circuits Level sensing | None |
| Back Diode | ANODE / CATHODE | ANODE — n / p — CATHODE | $V_{ANODE(-)}$, $V_{ANODE(+)}$ — Similar characteristics to conventional diode except very low forward voltage drop | 5 mA 400 mV | Microwave mixers and low power oscillators | None |
| Thyrector | | p / n / n / p | VOLTAGE — Rapidly increasing current above rated voltage in either direction | 70 A peak pulse (2″ Sq. cell) | Transient voltage suppression and arc suppression | Thyrite Two avalanche diodes in inverse-series connection |
| n-p-n Transistor | COLLECTOR, $I_C$ / BASE, $I_B$ / EMITTER | COLLECTOR — n / p / n — EMITTER, BASE | $I_C$, $I_{B5}$, $I_{B4}$, $I_{B3}$, $I_{B2}$, $I_{B1}$, $V_{COLLECTOR(+)}$ — Constant collector current for given base drive | 300 Volts 25 Watts | Amplification Switching Oscillation | Pentode Tube |
| p-n-p Transistor | COLLECTOR, $I_C$ / BASE, $I_B$ / EMITTER | COLLECTOR — p / n / p — EMITTER, BASE | $V_{COLLECTOR(-)}$, 0, $I_{B1}$, $I_{B2}$, $I_{B3}$, $I_{B4}$, $I_{B5}$, $I_{COLLECTOR(-)}$ — Complement to n-p-n transistor | 75 Volts 25 Watts | Amplification Switching Oscillation | None |
| Photo Transistor | COLLECTOR / BASE, $I_B$ / EMITTER | COLLECTOR — n / p / n — EMITTER, BASE | I COLLECTOR, H4, H3, H2, H1, $V_{CE}$ — Incident light acts as base current of the photo transistor | 45 Volts 0.25 Amps 0.6 Watts | Tape readers Card readers Position sensor Tachometers | None |
| Unijunction Transistor (UJT) | BASE 2 / EMITTER / BASE 1 | BASE 1 / EMITTER — p / n — BASE 2 | VOLTAGE BETWEEN EMITTER & BASE 1, $V_P$, EMITTER $I_e$ — Unijunction emitter blocks until its voltage reaches $V_P$; then conducts | 35 Volts 0.450 Watts | Interval timing Oscillation Level Detector SCR Trigger | None |

# MAJOR SEMICONDUCTOR COMPONENTS

| NAME OF DEVICE | CIRCUIT SYMBOL | COMMONLY USED JUNCTION SCHEMATIC | ELECTRICAL CHARACTERISTICS | MAX RATINGS AVAILABLE | MAJOR APPLICATIONS | ROUGHLY ANALOGOUS TO: |
|---|---|---|---|---|---|---|
| Complementary Unijunction Transistor (CUJT) | | | | 30 Volts<br>0.30 Watts<br>0.15 Amps | High stability timers<br>Oscillators and level detectors | None |
| Programmable Unijunction Transistor (PUT) | | | Programmed by two resistors for $V_p$, $I_p$, $I_v$. Function equivalent to normal UJT. | 40 Volts<br>0.30 Watts<br>0.15 Amps | Low cost timers and oscillators<br>Long period timers<br>SCR trigger<br>Level detector | UJT |
| Silicon Controlled Rectifier (SCR) | | | With anode voltage (+), SCR can be triggered by $I_g$, remaining in conduction until anode I is reduced to zero | 1000 Amps<br>1800 Volts | Power switching<br>Phase control<br>Inverters<br>Choppers | Gas thyratron or ignitron |
| Complementary Silicon Controlled Rectifier (CSCR) | | | Polarity complement to SCR | 50 Volts<br>0.25 Amps<br>0.45 Watts | Ring counters<br>Low speed logic<br>Lamp driver | None |
| Light Activated SCR* (LASCR) | | | Operates similar to SCR, except can also be triggered into conduction by light falling on junctions | 1.6 Amps<br>200 Volts | Relay Replacement<br>Position controls<br>Photoelectric applications<br>Slave flashes | None |
| Silicon Controlled Switch* (SCS) | | | Operates similar to SCR except can also be triggered on by a negative signal on anode-gate. Also several other specialized modes of operation | 100 Volts<br>200 mA | Logic applications<br>Counters<br>Nixie drivers<br>Lamp drivers | Complementary transistor pair |
| Silicon Unilateral Switch (SUS) | | | Similar to SCS but zener added to anode gate to trigger device into conduction at ~ 8 volts. Can also be triggered by negative pulse at gate lead. | 0.350 Watts<br>0.200 Amps<br>10 Volts | Switching Circuits<br>Counters<br>SCR Trigger<br>Oscillator | Shockley or 4-layer diode |
| Silicon Bilateral Switch (SBS) | | | Symmetrical bilateral version of the SUS. Breaks down in both directions as SUS does in forward. | 0.350 Watts<br>0.200 Amps<br>10 Volts | Switching Circuits<br>Counters<br>TRIAC Phase Control | Two inverse Schockley diodes |
| Triac | | | Operates similar to SCR except can be triggered into conduction in either direction by (+) or (-) gate signal | 25 Amps<br>500 Volts | AC switching<br>Phase control<br>Relay replacement | Two SCR's in inverse parallel |
| Diac Trigger | | | When voltage reaches trigger level (about 35 volts), abruptly switches down about 10 volts. | 40 Volts<br>2 Amps peak | Triac and SCR trigger<br>Oscillator | Neon lamp |

*Light Activated SCS also available.

# GLOSSARY OF WORDS, SYMBOLS AND ABBREVIATIONS

The following letter symbols and abbreviations are recommended by the Joint Electron Device Engineering Council (JEDEC) of the Electronic Industries Association (EIA) and the National Electrical Manufacturers Association (NEMA) for use in semiconductor device data sheets and specifications.

**A, a** —Anode

**B, b** —Base

$b_{fs}$ —Common-source small-signal forward transfer susceptance

$b_{is}$ —Common-source small-signal input susceptance

$b_{os}$ —Common-source small-signal output susceptance

$b_{rs}$ —Common-source small-signal reverse transfer susceptance

**C, c** —Collector

$C_{cb}$ —Collector-base interterminal capacitance

$C_{ce}$ —Collector-emitter interterminal capacitance

$C_{ds}$ —Drain-source capacitance

$C_{du}$ —Drain-substrate capacitance

$C_{eb}$ —Emitter-base interterminal capacitance

$C_{ibo}$ —Common-base open-circuit input capacitance

$C_{ibs}$ —Common-base short-circuit input capacitance

$C_{ieo}$ —Common-emitter open-circuit input capacitance

$C_{ies}$ —Common-emitter short-circuit input capacitance

$C_{iss}$ —Common-source short-circuit input capacitance

$C_{obo}$ —Common-base open-circuit output capacitance

$C_{obs}$ —Common-base short-circuit output capacitance

$C_{oeo}$ —Common-emitter open-circuit output capacitance

$C_{oes}$ —Common-emitter short-circuit output capacitance

$C_{oss}$ —Common-source short-circuit output capacitance

$C_{rbs}$ —Common-base short-circuit reverse transfer capacitance

$C_{rcs}$ —Common-collector short-circuit reverse transfer capacitance

$C_{res}$ —Common-emitter short-circuit reverse transfer capacitance

$C_{rss}$ —Common-source short-circuit reverse transfer capacitance

$C_{tc}$ —Collector depletion-layer capacitance

$C_{te}$ —Emitter depletion-layer capacitance

**D, d** —Drain

**E, e** —Emitter

$\eta$ —Intrinsic standoff ratio

$f_{hfb}$ —Common-base small-signal short-circuit forward current transfer ratio cutoff frequency

$f_{hfc}$ —Common-collector small-signal short-circuit forward current transfer ratio cutoff frequency

$f_{hfe}$ —Common-emitter small-signal short-circuit forward current transfer ratio cutoff frequency

$f_{max}$ —Maximum frequency of oscillation

$F_T$ —Transition frequency (frequency at which common-emitter small-signal forward current transfer ratio extrapolates to unity)

**G, g** —Gate

$g_{fs}$ —Common-source small-signal forward transfer conductance

$g_{is}$ —Common-source small-signal input conductance

$g_{MB}$ —Common-base static transconductance

$g_{MC}$ —Common-collector static transconductance

$g_{ME}$ —Common-emitter static transconductance

$g_{os}$ —Common-source small-signal output conductance

$G_{PB}$ —Common-base large-signal insertion power gain

$G_{pb}$ —Common-base small-signal insertion power gain

$G_{PC}$ —Common-collector large-signal insertion power gain

$G_{pc}$ —Common-collector small-signal insertion power gain

$G_{PE}$ —Common-emitter large-signal insertion power gain

$G_{pe}$ —Common-emitter small-signal insertion power gain

$G_{pg}$ —Common-gate small-signal insertion power gain

$G_{ps}$ —Common-source small-signal insertion power gain

$g_{rs}$ —Common-source small-signal reverse transfer conductance

$G_{TB}$ —Common-base large-signal transducer power gain

$G_{tb}$ —Common-base small-signal transducer power gain

$G_{TC}$ —Common-collector large-signal transducer power gain

$G_{tc}$ —Common-collector small-signal transducer power gain

$G_{TE}$ —Common-emitter large-signal transducer power gain

$G_{te}$ —Common-emitter small-signal transducer power gain

$G_{tg}$ —Common-gate small-signal transducer power gain

$G_{ts}$ —Common-source small-signal transducer power gain

$h_{FB}$ —Common-base static forward current transfer ratio

$h_{fb}$ —Common-base small-signal short-circuit forward current transfer ratio

$h_{FC}$ —Common-collector static forward current transfer ratio

$h_{fc}$ —Common-collector small-signal short-circuit forward current transfer ratio

$h_{FE}$ —Common-emitter static forward current transfer ratio

$h_{fe}$ —Common-emitter small-signal short-circuit forward current transfer ratio

$h_{FEI}$ —Inherent large-signal forward current transfer ratio

$h_{IB}$ —Common-base static input resistance

$h_{ib}$ —Common-base small-signal short-circuit input impedance

$h_{IC}$ —Common-collector static input resistance

$h_{ic}$ —Common-collector small-signal short-circuit input impedance

$h_{IE}$ —Common-emitter static input resistance

$h_{ie}$ —Common-emitter small-signal short-circuit input impedance

$h_{ie(imag)}$ —Imaginary part of common-emitter small-signal short-circuit input impedance

$h_{ie(real)}$ —Real part of common-emitter small-signal short-circuit input impedance

$h_{ob}$ —Common-base small-signal open-circuit output admittance

$h_{oc}$ —Common-collector small-signal open-circuit output admittance

$h_{oe}$ —Common-emitter small-signal open-circuit output admittance

$h_{oe(imag)}$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$h_{oe(real)}$ —Real part of common-emitter small-signal open-circuit output admittance

$h_{rb}$ —Common-base small-signal open-circuit reverse voltage transfer ratio

$h_{rc}$ —Common-collector small-signal open-circuit reverse voltage transfer ratio

$h_{re}$ —Common-emitter small-signal open-circuit reverse voltage transfer ratio

$I_B$ —Base-terminal dc current

$I_b$ —Alternating component (rms value) of base-terminal current

$i_B$ —Instantaneous total value of base-terminal current

$I_{BEV}$ —Base cutoff current, dc

$I_{B2(mod)}$ —Interbase modulated current

$I_C$ —Collector-terminal dc current

$I_c$ —Alternating component (rms value) of collector-terminal current

$i_C$ —Instantaneous total value of collector-terminal current

$I_{CBO}$ —Collector cutoff current (dc), emitter open

$I_{CEO}$ —Collector cutoff current (dc), base open

$I_{CER}$ —Collector cutoff current (dc), specified resistance between base and emitter

$I_{CES}$ —Collector cutoff current (dc), base shorted to emitter

$I_{CEV}$ —Collector cutoff current (dc), specified voltage between base and emitter

$I_{CEX}$ —Collector cutoff current (dc), specified circuit between base and emitter

$I_D$ —Drain current, dc

$I_{D(off)}$ —Drain cutoff current

$I_{D(on)}$ —On-state drain current

$I_{DSS}$ —Zero-gate-voltage drain current

$I_E$ —Emitter-terminal dc current

$I_e$ —Alternating component (rms value) of emitter-terminal current

$i_E$ —Instantaneous total value of emitter-terminal current

$I_{EBO}$ —Emitter cutoff current (dc), collector open

$I_{EB2O}$ —Emitter reverse current

$I_{EC(ofs)}$ —Emitter-collector offset current

$I_{ECS}$ —Emitter cutoff current (dc), base short-circuited to collector

$I_{E1E2(off)}$ —Emitter cutoff current

$I_F$ —For voltage-regulator and voltage-reference diodes: dc forward current. For signal diodes and rectifier diodes: dc forward current (no alternating component)

$I_f$ —Alternating component of forward current (rms value)

$i_F$ —Instantaneous total forward current

$I_{F(AV)}$ —Forward current, dc (with alternating component)

$I_{FM}$ —Maximum (peak) total forward current

$I_{F(OV)}$ —Forward current, overload

$I_{FRM}$ —Maximum (peak) forward current, repetitive

$I_{F(RMS)}$ —Total rms forward current

$I_{FSM}$ —Maximum (peak) forward current, surge

$I_G$ —Gate current, dc

$I_{GF}$ —Forward gate current

$I_{GR}$ —Reverse gate current

$I_{GSS}$ —Reverse gate current, drain short-circuited to source

$I_{GSSF}$ —Forward gate current, drain short-circuited to source

$I_{GSSR}$ —Reverse gate current, drain short-circuited to source

$I_I$ —Inflection-point current

$Im(h_{ie})$ —Imaginary part of common-emitter small-signal short-circuit input impedance

$Im(h_{oe})$ —Imaginary part of common-emitter small-signal open-circuit output admittance

$I_O$ —Average forward current, 180° conduction angle, 60-Hz half sine wave

$I_P$ —Peak-point current

$I_R$ —For voltage-regulator and voltage-reference diodes: dc reverse current. For signal diodes and rectifier diodes: dc reverse current (no alternating component)

$I_r$ —Alternating component of reverse current (rms value)

$i_R$ —Instantaneous total reverse current

$I_{R(AV)}$ —Reverse current, dc (with alternating component)

$I_{RM}$ —Maximum (peak) total reverse current

$I_{RRM}$ —Maximum (peak) reverse current, repetitive

$I_{R(RMS)}$ —Total rms reverse current

$I_{RSM}$ —Maximum (peak) surge reverse current

$I_S$ —Source current, dc

$I_{SDS}$ —Zero-gate-voltage source current

$I_{S(off)}$ —Source cutoff current

$I_V$ —Valley-point current

$I_Z$ —Regulator current, reference current (dc)

$I_{ZK}$ —Regulator current, reference current (dc near breakdown knee)

$I_{ZM}$ —Regulator current, reference current (dc maximum rated current)

$K, k$ —Cathode

$L_c$ —Conversion loss

$M$ —Figure of merit

$NF_o$ —Overall noise figure

$NR_o$ —Output noise ratio

$P_{BE}$ —Power input (dc) to base, common emitter

$p_{BE}$ —Instantaneous total power input to base, common emitter

$P_{CB}$ —Power input (dc) to collector, common base

$p_{CB}$ —Instantaneous total power input to collector, common base

$P_{CE}$ —Power input (dc) to collector, common emitter

$p_{CE}$ —Instantaneous total power input to collector, common emitter

$P_{EB}$ —Power input (dc) to emitter, common base

$p_{EB}$ —Instantaneous total power input to emitter, common base

$P_F$ —Forward power dissipation, dc (no alternating component)

$p_F$ —Instantaneous total forward power dissipation

$P_{F(AV)}$ —Forward power dissipation, dc (with alternating component)

$P_{FM}$ —Maximum (peak) total forward power dissipation

$P_{IB}$ —Common-base large-signal input power

$p_{ib}$ —Common-base small-signal input power

$P_{IC}$ —Common-collector large-signal input power

$p_{ic}$ —Common-collector small-signal input power

$P_{IE}$ —Common-emitter large-signal input power

$p_{ie}$ —Common-emitter small-signal input power

$P_{OB}$ —Common-base large-signal output power

$p_{ob}$ —Common-base small-signal output power

$P_{OC}$ —Common-collector large-signal output power

$p_{oc}$ —Common-collector small-signal output power

$P_{OE}$ —Common-emitter large-signal output power

$p_{oe}$ —Common-emitter small-signal output power

$P_R$ —Reverse power dissipation, dc (no alternating component)

$p_R$ —Instantaneous total reverse power dissipation

$P_{R(AV)}$ —Reverse power dissipation, dc (with alternating component)

$P_{RM}$ —Maximum (peak) total reverse power dissipation
$P_T$ —Total nonreactive power input to all terminals
$p_T$ —Nonreactive power input, instantaneous total, to all terminals
$Q_S$ —Stored charge
$r_{BB}$ —Interbase resistance
$r_b'C_c$ —Collector-base time constant
$r_{CE(sat)}$ —Saturation resistance, collector-to-emitter
$r_{DS(on)}$ —Static drain-source on-state resistance
$r_{ds(on)}$ —Small-signal drain-source on-state resistance
$Re(h_{ie})$ —Real part of common-emitter small-signal short-circuit input impedance
$Re(h_{oe})$ —Real part of common-emitter small-signal open-circuit output admittance
$r_{e1e2(on)}$ —Small-signal emitter-emitter on-state resistance
$r_i$ —Dynamic resistance at inflection point
$R_\theta$ —Thermal resistance
$R_{\theta CA}$ —Thermal resistance, case to ambient
$R_{\theta JA}$ —Thermal resistance, junction to ambient
$R_{\theta JC}$ —Thermal resistance, junction to case
$S, s$ —Source
$T_A$ —Ambient temperature or free-air temperature
$T_C$ —Case temperature
$t_d$ —Delay time
$t_{d(off)}$ —Turn-off delay time
$t_{d(on)}$ —Turn-on delay time
$t_f$ —Fall time
$t_{fr}$ —Forward recovery time
$T_j$ —Junction temperature
$t_{off}$ —Turn-off time
$t_{on}$ —Turn-on time
$t_p$ —Pulse time
$t_r$ —Rise time
$t_{rr}$ —Reverse recovery time
$t_s$ —Storage time
$TSS$ —Tangential signal sensitivity
$T_{stg}$ —Storage temperature
$t_w$ —Pulse average time
$U, u$ —Bulk (substrate)
$V_{BB}$ —Base supply voltage (dc)
$V_{BC}$ —Average or dc voltage, base to collector
$V_{bc}$ —Instantaneous value of alternating component of base-collector voltage
$V_{BE}$ —Average or dc voltage, base to emitter
$v_{be}$ —Instantaneous value of alternating component of base-emitter voltage
$V_{(BR)}$ —Breakdown voltage (dc)
$v_{(BR)}$ —Breakdown voltage (instantaneous total)
$V_{(BR)CBO}$ —Collector-base breakdown voltage, emitter open
$V_{(BR)CEO}$ —Collector-emitter breakdown voltage, base open
$V_{(BR)CER}$ —Collector-emitter breakown voltage, resistance between base and emitter
$V_{(BR)CES}$ —Collector-emitter breakdown voltage, base shorted to emitter
$V_{(BR)CEV}$ —Collector-emitter breakdown voltage, specified voltage between base and emitter
$V_{(BR)CEX}$ —Collector-emitter breakdown voltage, specified circuit between base and emitter
$V_{(BR)EBO}$ —Emitter-base breakdown voltage, collector open
$V_{(BR)ECO}$ —Emitter-collector breakdown voltage, base
$V_{(BR)E1E2}$ —Emitter-emitter breakdown voltage
$V_{(BR)GSS}$ —Gate-source breakdown voltage
$V_{(BR)GSSF}$ —Forward gate-source breakdown voltage
$V_{(BR)GSSR}$ —Reverse gate-source breakdown voltage
$V_{B2B1}$ —Interbase voltage
$V_{CB}$ —Average or dc voltage, collector to base

$v_{cb}$ —Instantaneous value of alternating component of collector-base voltage
$V_{CB(fl)}$ —Collector-base dc open-circuit voltage (floating potential)
$V_{CBO}$ —Collector-base voltage, dc, emitter open
$V_{CC}$ —Collector supply voltage (dc)
$V_{CE}$ —Average or dc voltage, collector to emitter
$v_{ce}$ —Instantaneous value of alternating component of collector-emitter voltage
$V_{CE(fl)}$ —Collector-emitter dc open-circuit voltage (floating potential)
$V_{CEO}$ —Collector-emitter oltage (dc), base open
$V_{CE(ofs)}$ —Collector-emitter offset voltage
$V_{CER}$ —Collector-emitter voltage (dc), resistance between base and emitter
$V_{CES}$ —Collector-emitter voltage (dc), base shorted to emitter
$V_{CE(sat)}$ —Collector-emitter dc saturation voltage
$V_{CEV}$ —Collector-emitter voltage (dc), specified voltage between base and emitter
$V_{CEX}$ —Collector-emitter voltage (dc), specified circuit between base and emitter
$V_{DD}$ —Drain supply voltage (dc)
$V_{DG}$ —Drain-gate voltage
$V_{DS}$ —Drain-source voltage
$V_{DS(on)}$ —Drain-source on-state voltage
$V_{DU}$ —Drain-substrate voltage
$V_{EB}$ —Average or dc voltage, emitter to base
$v_{eb}$ —Instantaneous value of alternating component of emitter-base voltage
$V_{EB(fl)}$ —Emitter-base dc open-circuit voltage (floating potential)
$V_{EBO}$ —Emitter-base voltage (dc), collector open
$V_{EB1(sat)}$ —Emitter saturation voltage
$V_{EC}$ —Average or dc voltage, emitter to collector
$v_{ec}$ —Instantaneous value of alternating component of emitter-collector voltage
$V_{EC(fl)}$ —Emitter-collector dc open-circuit voltage (floating potential)
$V_{EC(ofs)}$ —Emitter-collector offset voltage
$V_{EE}$ —Emitter supply voltage (dc)
$V_F$ —For voltage-regulator and voltage-reference diodes: dc forward voltage. For signal diodes and rectifier diodes: dc forward voltage (no alternating component)
$V_f$ —Alternating component of forward voltage (rms value)
$V_F$ —Instantaneous total forward voltage
$V_{F(AV)}$ —Forward voltage, dc (with alternating component)
$V_{FM}$ —Maximum (peak) total forward voltage
$V_{F(RMS)}$ —Total rms forward voltage
$V_{GG}$ —Gate supply voltage (dc)
$V_{GS}$ —Gate-source voltage
$V_{GSF}$ —Forward gate-source voltage
$V_{GS(off)}$ —Gate-source cutoff voltage
$V_{GSR}$ —Reverse gate-source voltage
$V_{GS(th)}$ —Gate-source threshold voltage
$V_{GU}$ —Gate-substrate voltage
$V_I$ —Inflection-point voltage
$V_{OB1}$ —Base-1 peak voltage
$V_P$ —Peak-point voltage
$V_{PP}$ —Projected peak-point voltage
$V_R$ —For voltage-regulator and voltage-reference diodes: dc reverse voltage. For signal diodes and rectifier diodes: dc reverse voltage (no alternating component)
$V_r$ —Alternating component of reverse voltage (rms value)

$v_R$ —Instantaneous total reverse voltage

$V_{R(AV)}$ —Reverse voltage, dc (with alternating component)

$V_{RM}$ —Maximum (peak) total reverse voltage

$V_{RRM}$ —Repetitive peak reverse voltage

$V_{R(RMS)}$ —Total rms reverse voltage

$V_{RSM}$ —Nonrepetitive peak reverse voltage

$V_{RT}$ —Reach-through voltage

$V_{RWM}$ —Working peak reverse voltage

$V_{SS}$ —Source supply voltage (dc)

$V_{SU}$ —Source-substrate voltage

$V_{(TO)}$ —Threshold voltage

$V_V$ —Valley-point voltage

$V_Z$ —Regulator voltage, reference voltage (dc)

$V_{ZM}$ —Regulator voltage, reference voltage (dc at maximum rated current)

$y_{fb}$ —Common-base small-signal short-circuit forward transfer admittance

$y_{fc}$ —Common-collector small-signal short-circuit forward transfer admittance

$y_{fe}$ —Common-emitter small-signal short-circuit forward transfer admittance

$y_{fs}$ —Common-source small-signal short-circuit forward transfer admittance

$y_{fs(imag)}$ —Common-source small-signal forward transfer susceptance

$y_{fs(real)}$ —Common-source small-signal forward transfer conductance

$y_{ib}$ —Common-base small-signal short-circuit input admittance

$y_{ic}$ —Common-collector small-signal short-circuit input admittance

$y_{ie}$ —Common-emitter small-signal short-circuit input admittance

$y_{ie(imag)}$ —Imaginary part of small-signal short-circuit input admittance (common-emitter)

$y_{ie(real)}$ —Real part of small-signal short-circuit input admittance (common-emitter)

$y_{is}$ —Common-source small-signal short-circuit input admittance

$y_{is(imag)}$ —Common-source small-signal input susceptance

$y_{is(real)}$ —Common-source small-signal input conductance

$y_{ob}$ —Common-base small-signal short-circuit output admittance

$y_{oc}$ —Common-collector small-signal short-circuit output admittance

$y_{oe}$ —Common-emitter small-signal short-circuit output admittance

$y_{oe(imag)}$ —Imaginary part of small-signal short-circuit output admittance (common-emitter)

$y_{oe(real)}$ —Real part of small-signal short-circuit output admittance (common-emitter)

$y_{os}$ —Common-source small-signal short-circuit output admittance

$y_{os(imag)}$ —Common-source small-signal output susceptance

$y_{os(real)}$ —Common-source small-signal output conductance

$y_{rb}$ —Common-base small-signal short-circuit reverse transfer admittance

$y_{rc}$ —Common-collector small-signal short-circuit reverse transfer admittance

$y_{re}$ —Common-emitter small-signal short-circuit reverse transfer admittance

$y_{rs}$ —Common-source small-signal short-circuit reverse transfer admittance

$y_{rs(imag)}$ —Common-source small-signal reverse transfer susceptance

$y_{rs(real)}$ —Common-source small-signal reverse transfer conductance

$z_{if}$ —Intermediate-frequency impedance

$z_m$ —Modulator-frequency load impedance

$z_{rf}$ —Radio-frequency impedance

$Z_{\theta JA(t)}$ —Junction-to-ambient transient thermal impedance

$Z_{\theta JC(t)}$ —Junction-to-case transient thermal impedance

$Z_{\theta(t)}$ —Transient thermal impedance

$z_v$ —Video impedance

$z_z$ —Regulator impedance, reference impedance (small-signal at $I_z$)

$z_{zk}$ —Regulator impedance, reference impedance (small-signal at $I_{ZK}$)

$z_{zm}$ —Regulator impedance, reference impedance (small-signal at $I_{ZM}$)

# NOTES