

6.4 Volt Temperature Compensated Zener Reference Diodes

DESCRIPTION

The popular 1N4565 thru 1N4584A-1 series of Zero-TC Reference Diodes provides a selection of both 6.4 V nominal voltages and temperature coefficients to as low as 0.0005%/°C for minimal voltage change with temperature. Four different operating currents are available for selection at 0.5 mA, 1.0 mA, 2.00 mA, and 4.00 mA. These glass axial-leaded DO-35 reference diodes are optionally available with an internal-metallurgical-bond by adding a "-1" suffix. This same "-1" bonded Zener package construction is also available in JAN, JANTX, and JANTXV military qualifications. Microsemi also offers numerous other Zener Reference Diode products for a variety of other voltages up to 200 V.

DO-35 (DO-204AH)

IMPORTANT: For the most current data, consult MICROSEMI's website: http://www.microsemi.com

FEATURES

- JEDEC registered 1N4565 thru 1N4584 series
- Internal metallurgical bond option available by adding a "-1" suffix
- Zener reference voltage of 6.4 V +/- 5% with tighter tolerance available at lower voltage
- 1N4565 thru 1N4584 also have qualification to MIL-PRF-19500/452 by adding the JAN, JANTX, or JANTXV prefixes to part numbers a well as the "-1" suffix; e.g. JANTX1N4574A-1, etc.
- Military surface mount equivalents also available in DO-213AA by adding UR-1 suffix and the JAN, JANTX, and JANTXV prefix, e.g. JANTX1N4569AUR-1 (see separate data sheet)
- Also available in DO-7 package including military qualifications up to JANS (see separate data sheet)
- JANS equivalent available in DO-35 via SCD

MAXIMUM RATINGS

- Operating Temperatures: -65°C to +175°C
- Storage Temperatures: -65°C to +175°C
- DC Power Dissipation: 500 mW @ T_L = 25°C with maximum current I_{ZM} 70 mA. NOTE: For optimum voltage-temperature stability, the operating test current (I_{ZT}) should be as specified in the Electrical Characteristics Table (power less than 30 mW)
- Solder Temperatures: 260°C for 10 s (max)

APPLICATIONS / BENEFITS

- Provides minimal voltage changes over a broad temperature range for instrumentation and other circuit designs requiring a voltage reference
- Temperature coefficient selections available from 0.01%/°C to 0.0005%/°C
- Tight reference voltage tolerances available with nominal value centered at 6.2 V by adding tolerance 1%, 2%, 3%, etc. after the part number for identification, e.g. 1N4569-2%, 1N4579A-1%, 1N4574A-1-1%, etc.
- · Flexible axial-leaded mounting terminals
- Nonsensitive to ESD per MIL-STD-750 Method 1020
- Typical low capacitance of 100 pF or less

MECHANICAL AND PACKAGING

- CASE: Hermetically sealed glass case. DO-35 (DO-204AH) package
- TERMINALS: Leads, tin-lead plated solderable per MIL-STD-750, Method 2026
- MARKING: Part number and cathode band
- POLARITY: Reference diode to be operated with the banded end positive with respect to the opposite end
- TAPE & REEL option: Standard per EIA-296 (add "TR" suffix to part number)
- · WEIGHT: 0.2 grams.
- · See package dimensions on last page



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(Notes 1 & 4) kr mA ανz + l - %/°C + l - mV/°C Temp. Range μA OHMS 1N4565 .5 .01 .64 0 to +75°C 2.0 200 1N4566 .5 .001 .64 -55 to +100°C 2.0 200 1N4566 .5 .005 .32 0 to +75°C 2.0 200 1N4567 .5 .002 .13 -55 to +100°C 2.0 200 1N4567A .5 .002 .13 -55 to +100°C 2.0 200 1N4568 .5 .001 .06 -55 to +100°C 2.0 200 1N45689 .5 .001 .06 -55 to +100°C 2.0 200 1N45699 .5 .0005 .03 -55 to +100°C 2.0 200 1N4570A .5 .01 .64 0 to +75°C 2.0 200 1N4571A 1.0 .005 .32 .0 to +75°C 2.0 100 1N4572A	JEDEC TYPE Number	ZENER TEST CURRENT (Note 3)	MAXIMUM VOLTAGE TEMPERATURE COEFFICIENT			MAXIMUM REVERSE CURRENT	MAX. DYNAMIC IMPEDANCE (Note 2)
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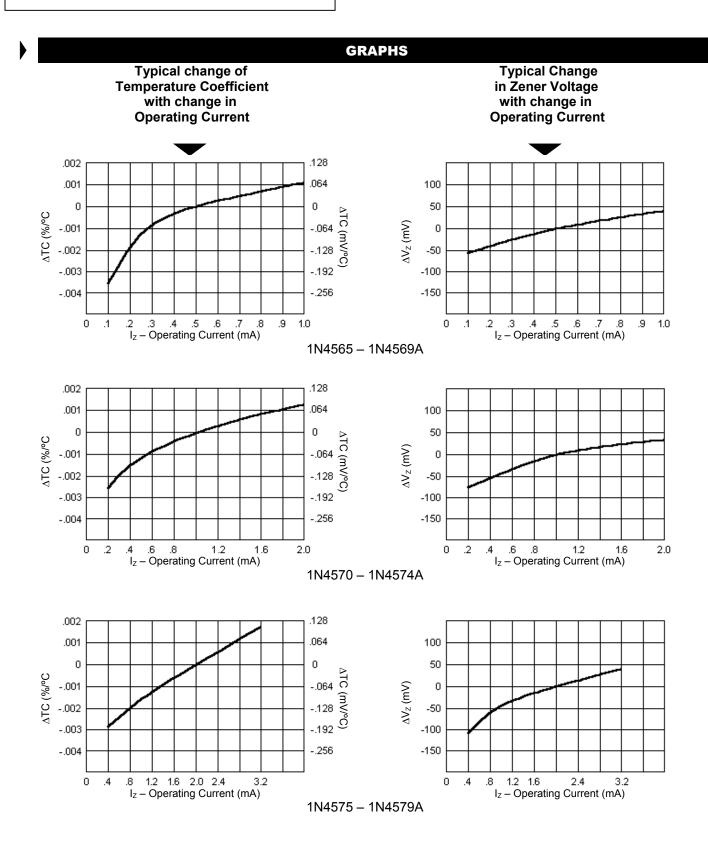
^{*}JEDEC Registered Data.

NOTES:

- When ordering devices with tighter tolerances than specified for the V_Z voltage nominal of 6.2V, add a hyphened suffix to the part number for desired tolerance, e.g. 1N4569A-2%, 1N4574A-1-1%, 1N4579-1-2%, 1N4584A-1-3%, etc. Zener impedance is measured by superimposing 0.75 mA ac rms on 7.5 mA dc @ 25°C.
- Voltage measurements to be performed 15 seconds after application of dc current.
- 1N4565A thru 1N4584A also have qualification to MIL-PRF-19500/452 by adding the JAN, JANTXV, or JANS prefixes to part numbers as well as the "-1" suffix; e.g. JANTX1N4569A-1, JANTXV1N4574A-1, etc.

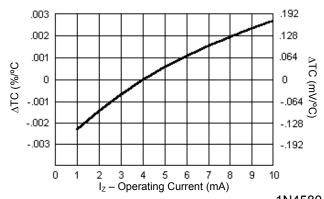


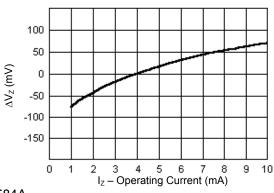
6.4 Volt Temperature Compensated Zener Reference Diodes





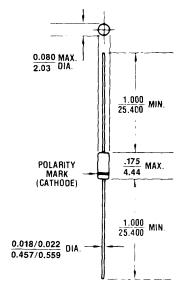
6.4 Volt Temperature Compensated Zener Reference Diodes





1N4580 – 1N4584A

PACKAGE DIMENSIONS



All dimensions in INCH mm

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