

New Jersey Semi-Conductor Products, Inc.

20 STERN AVE.
SPRINGFIELD, NEW JERSEY 07081
U.S.A.

TEMPERATURE COMPENSATED ZENER REFERENCE DIODES
6.4 VOLT NOMINAL ZENER VOLTAGE

1N4565
thru
1N4584A

FEATURES

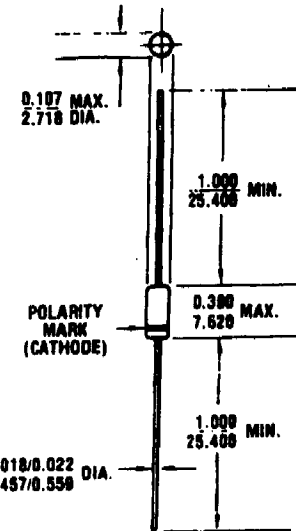
6.4 V $\pm 5\%$ Zener Voltage (Note 1)
Temperature Coefficient Range: .01 to .0005%/°C
Zener Test Current Range: 500 μ A to 4 mA

MAXIMUM RATINGS

Operating Temperature: -55 °C to +175 °C
Storage Temperature: -55 °C to +175 °C
DC Power Dissipation: 400 mW at 50 °C
Power Derating: 3.2 mW/°C above 50 °C

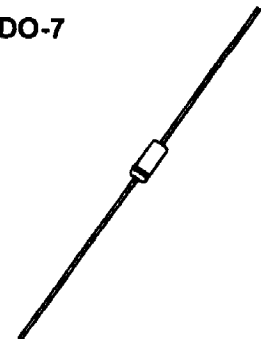
*** ELECTRICAL CHARACTERISTICS @ 25 °C, unless otherwise specified**

| JEDEC TYPE NUMBERS | ZENER TEST CURRENT - I_Z (Note 1) | MAXIMUM DYNAMIC ZENER IMPEDANCE Z_Z (Note 2) | MAXIMUM VOLTAGE TEMPERATURE COEFFICIENT | | |
|--------------------|-------------------------------------|--|---|---------------------------------|-------------------------|
| | | | $\pm\%/^{\circ}\text{C}$ | $\pm\text{mV}/^{\circ}\text{C}$ | TEMP RANGE °C |
| 1N4565 1N4565A | .5 .5 | 200 200 | .01 .01 | .64 .64 | 0 to +75 -55 to +100 |
| 1N4566 1N4566A | .5 .5 | 200 200 | .005 .005 | .32 .32 | 0 to +75 -55 to +100 |
| 1N4567 1N4567A | .5 .5 | 200 200 | .002 .002 | .13 .13 | 0 to +75 -55 to +100 |
| 1N4568 1N4568A | .5 .5 | 200 200 | .001 .001 | .06 .06 | 0 to +75 -55 to +100 |
| 1N4569 1N4569A | .5 .5 | 200 200 | .0005 .0005 | .03 .03 | 0 to +75 -55 to +100 |
| 1N4570 1N4570A | 1.0 1.0 | 100 100 | .01 .01 | .64 .64 | 0 to +75 -55 to +100 |
| 1N4571 1N4571A | 1.0 1.0 | 100 100 | .005 .005 | .32 .32 | 0 to +75 -55 to +100 |
| 1N4572 1N4572A | 1.0 1.0 | 100 100 | .002 .002 | .13 .13 | 0 to +75 -55 to +100 |
| 1N4573 1N4573A | 1.0 1.0 | 100 100 | .001 .001 | .06 .06 | 0 to +75 -55 to +100 |
| 1N4574 1N4574A | 1.0 1.0 | 100 100 | .0005 .0005 | .03 .03 | 0 to +75 -55 to +100 |
| 1N4575 1N4575A | 2.0 2.0 | 50 50 | .01 .01 | .64 .64 | 0 to +75 -55 to +100 |
| 1N4576 1N4576A | 2.0 2.0 | 50 50 | .005 .005 | .32 .32 | 0 to +75 -55 to +100 |
| 1N4577 1N4577A | 2.0 2.0 | 50 50 | .002 .002 | .13 .13 | 0 to +75 -55 to +100 |
| 1N4578 1N4578A | 2.0 2.0 | 50 50 | .001 .001 | .06 .06 | 0 to +75 -55 to +100 |
| 1N4579 1N4579A | 2.0 2.0 | 50 50 | .0005 .0005 | .03 .03 | 0 to +75 -55 to +100 |
| 1N4580A 1N4580A | 4.0 4.0 | 25 25 | .01 .01 | .64 .64 | 0 to +75 -55 to +100 |
| 1N4581 1N4581A | 4.0 4.0 | 25 25 | .005 .005 | .32 .32 | 0 to +75 -55 to +100 |
| 1N4582 1N4582A | 4.0 4.0 | 25 25 | .002 .002 | .13 .13 | 0 to +75 -55 to +100 |
| 1N4583 1N4583A | 4.0 4.0 | 25 25 | .001 .001 | .06 .06 | 0 to +75 -55 to +100 |
| 1N4584 1N4584A | 4.0 4.0 | 25 25 | .0005 .0005 | .03 .03 | 0 to +75 -55 to +100 |



All dimensions in **INCH**
mm

DO-7



* Reference voltage diodes of nominal 6.4 V $\pm 5\%$
C = $\pm 2\%$ tolerance
D = $\pm 1\%$ tolerance