

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

| JEDEC TYPE<br>Number<br>(Notes 1 & 4) | ZENER TEST<br>CURRENT<br>(Note 3)<br>$I_{ZT}$<br>mA | MAXIMUM VOLTAGE TEMPERATURE<br>COEFFICIENT |           |               | MAXIMUM<br>REVERSE<br>CURRENT<br>$I_R$ @ 3 V<br>$\mu$ A | MAX. DYNAMIC<br>IMPEDANCE<br>(Note 2)<br>$Z_{ZT}$ @ $I_{ZT}$<br>OHMS |
|---------------------------------------|-----------------------------------------------------|--------------------------------------------|-----------|---------------|---------------------------------------------------------|----------------------------------------------------------------------|
|                                       |                                                     | $\alpha_{VZ}$ +/- %/°C                     | +/- mV/°C | Temp. Range   |                                                         |                                                                      |
| 1N4565                                | .5                                                  | .01                                        | .64       | 0 to +75°C    | 2.0                                                     | 200                                                                  |
| 1N4565A                               | .5                                                  | .01                                        | .64       | -55 to +100°C | 2.0                                                     | 200                                                                  |
| 1N4566                                | .5                                                  | .005                                       | .32       | 0 to +75°C    | 2.0                                                     | 200                                                                  |
| 1N4566A                               | .5                                                  | .005                                       | .32       | -55 to +100°C | 2.0                                                     | 200                                                                  |
| 1N4567                                | .5                                                  | .002                                       | .13       | 0 to +75°C    | 2.0                                                     | 200                                                                  |
| 1N4567A                               | .5                                                  | .002                                       | .13       | -55 to +100°C | 2.0                                                     | 200                                                                  |
| 1N4568                                | .5                                                  | .001                                       | .06       | 0 to +75°C    | 2.0                                                     | 200                                                                  |
| 1N4568A                               | .5                                                  | .001                                       | .06       | -55 to +100°C | 2.0                                                     | 200                                                                  |
| 1N4569                                | .5                                                  | .0005                                      | .03       | 0 to +75°C    | 2.0                                                     | 200                                                                  |
| 1N4569A                               | .5                                                  | .0005                                      | .03       | -55 to +100°C | 2.0                                                     | 200                                                                  |
| 1N4570                                | .5                                                  | .01                                        | .64       | 0 to +75°C    | 2.0                                                     | 100                                                                  |
| 1N4570A                               | .5                                                  | .01                                        | .64       | -55 to +100°C | 2.0                                                     | 100                                                                  |
| 1N4571                                | 1.0                                                 | .005                                       | .32       | 0 to +75°C    | 2.0                                                     | 100                                                                  |
| 1N4571A                               | 1.0                                                 | .005                                       | .32       | -55 to +100°C | 2.0                                                     | 100                                                                  |
| 1N4572                                | 1.0                                                 | .002                                       | .13       | 0 to +75°C    | 2.0                                                     | 100                                                                  |
| 1N4572A                               | 1.0                                                 | .002                                       | .13       | -55 to +100°C | 2.0                                                     | 100                                                                  |
| 1N4573                                | 1.0                                                 | .001                                       | .06       | 0 to +75°C    | 2.0                                                     | 100                                                                  |
| 1N4573A                               | 1.0                                                 | .001                                       | .06       | -55 to +100°C | 2.0                                                     | 100                                                                  |
| 1N4574                                | 1.0                                                 | .0005                                      | .03       | 0 to +75°C    | 2.0                                                     | 100                                                                  |
| 1N4574A                               | 1.0                                                 | .0005                                      | .03       | -55 to +100°C | 2.0                                                     | 100                                                                  |
| 1N4575                                | 2.0                                                 | .01                                        | .64       | 0 to +75°C    | 2.0                                                     | 50                                                                   |
| 1N4575A                               | 2.0                                                 | .01                                        | .64       | -55 to +100°C | 2.0                                                     | 50                                                                   |
| 1N4576                                | 2.0                                                 | .005                                       | .32       | 0 to +75°C    | 2.0                                                     | 50                                                                   |
| 1N4576A                               | 2.0                                                 | .005                                       | .32       | -55 to +100°C | 2.0                                                     | 50                                                                   |
| 1N4577                                | 2.0                                                 | .002                                       | .13       | 0 to +75°C    | 2.0                                                     | 50                                                                   |
| 1N4577A                               | 2.0                                                 | .002                                       | .13       | -55 to +100°C | 2.0                                                     | 50                                                                   |
| 1N4578                                | 2.0                                                 | .001                                       | .06       | 0 to +75°C    | 2.0                                                     | 50                                                                   |
| 1N4578A                               | 2.0                                                 | .001                                       | .06       | -55 to +100°C | 2.0                                                     | 50                                                                   |
| 1N4579                                | 2.0                                                 | .0005                                      | .03       | 0 to +75°C    | 2.0                                                     | 50                                                                   |
| 1N4579A                               | 2.0                                                 | .0005                                      | .03       | -55 to +100°C | 2.0                                                     | 50                                                                   |
| 1N4580                                | 4.0                                                 | .01                                        | .64       | 0 to +75°C    | 2.0                                                     | 25                                                                   |
| 1N4580A                               | 4.0                                                 | .01                                        | .64       | -55 to +100°C | 2.0                                                     | 25                                                                   |
| 1N4581                                | 4.0                                                 | .005                                       | .32       | 0 to +75°C    | 2.0                                                     | 25                                                                   |
| 1N4581A                               | 4.0                                                 | .005                                       | .32       | -55 to +100°C | 2.0                                                     | 25                                                                   |
| 1N4582                                | 4.0                                                 | .002                                       | .13       | 0 to +75°C    | 2.0                                                     | 25                                                                   |
| 1N4582A                               | 4.0                                                 | .002                                       | .13       | -55 to +100°C | 2.0                                                     | 25                                                                   |
| 1N4583                                | 4.0                                                 | .001                                       | .06       | 0 to +75°C    | 2.0                                                     | 25                                                                   |
| 1N4583A                               | 4.0                                                 | .001                                       | .06       | -55 to +100°C | 2.0                                                     | 25                                                                   |
| 1N4584                                | 4.0                                                 | .0005                                      | .03       | 0 to +75°C    | 2.0                                                     | 25                                                                   |
| 1N4584A                               | 4.0                                                 | .0005                                      | .03       | -55 to +100°C | 2.0                                                     | 25                                                                   |

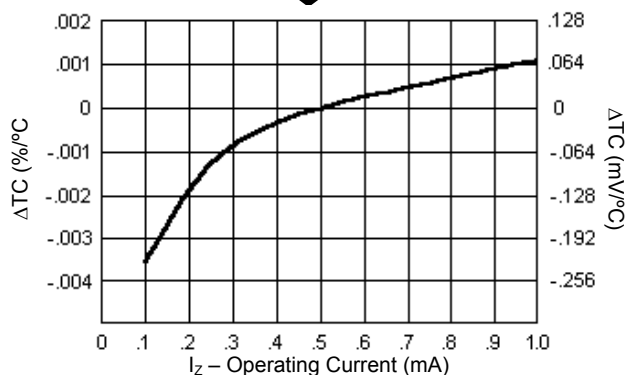
\* JEDEC Registered Data.

**NOTES:**

1. When ordering devices with tighter tolerances than specified for the  $V_Z$  voltage nominal of 6.2V, add a hyphenated suffix to the part number for desired tolerance, e.g. 1N4569A-2%, 1N4574A-1-1%, 1N4579-1-2%, 1N4584A-1-3%, etc.
2. Zener impedance is measured by superimposing 0.75 mA ac rms on 7.5 mA dc @ 25°C.
3. Voltage measurements to be performed 15 seconds after application of dc current.
4. 1N4565A thru 1N4584A also have qualification to MIL-PRF-19500/452 by adding the JAN, JANTX, JANTXV, or JANS prefixes to part numbers as well as the "-1" suffix; e.g. JANTX1N4569A-1, JANTXV1N4574A-1, etc.

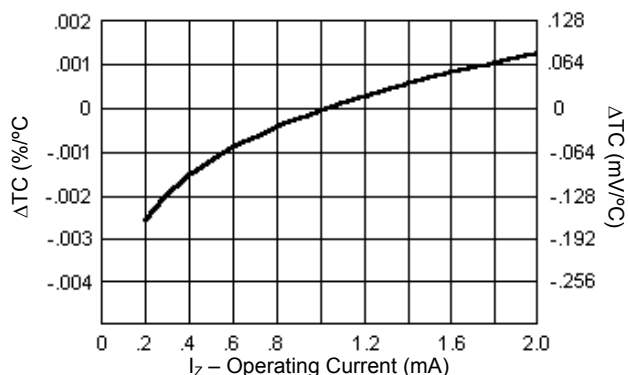
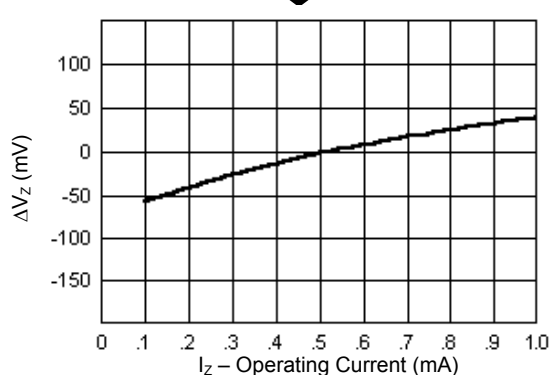
**GRAPHS**

Typical change of  
Temperature Coefficient  
with change in  
Operating Current

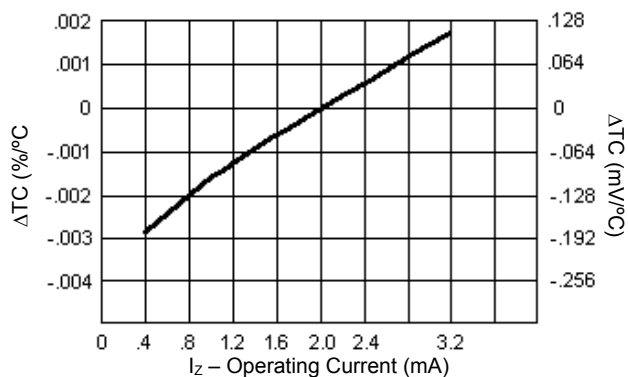
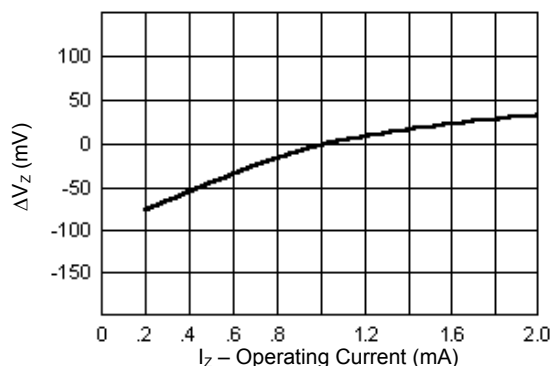


1N4565 – 1N4569A

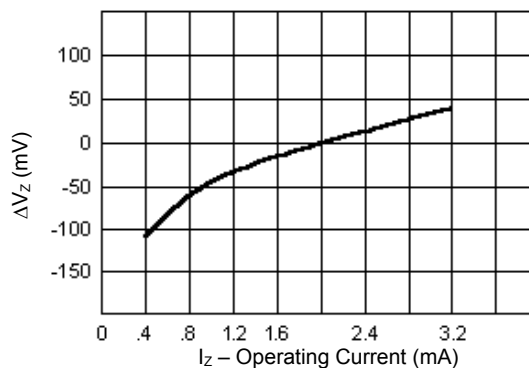
Typical Change  
in Zener Voltage  
with change in  
Operating Current

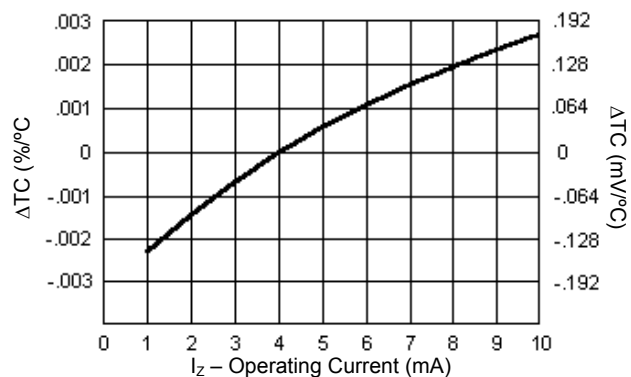


1N4570 – 1N4574A

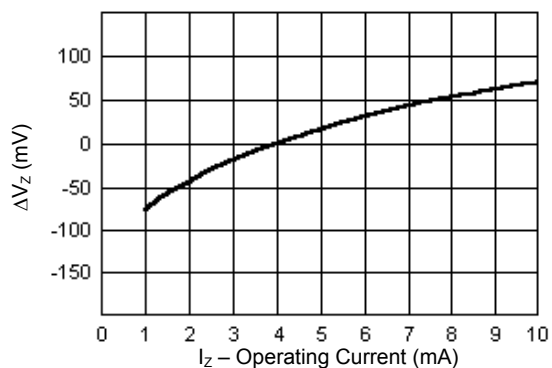


1N4575 – 1N4579A

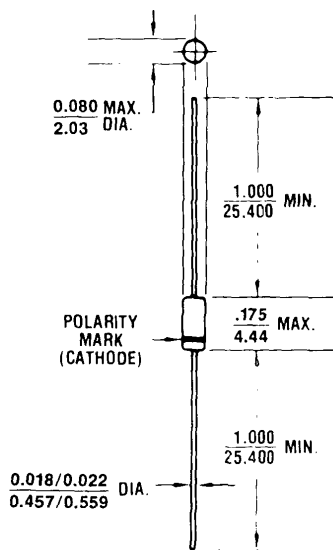




1N4580 - 1N4584A



## PACKAGE DIMENSIONS



All dimensions in INCH  
mm