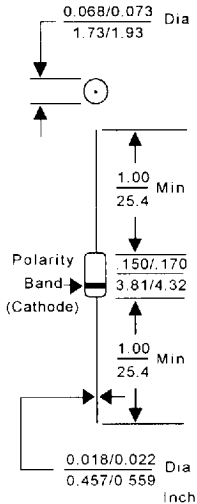


# ZENER DIODES, GLASS PACKAGE, GENERAL PURPOSE

| 500mW  | Nominal Zener Voltage | Zener Test | Max Zener Impedance for Suffix A & B |                         | Maximum Reverse Current at 25°C       |           |           |                                | Typ. Temp Coeff. of Zener Voltage | Package Quantities | Outline                                                                             |
|--------|-----------------------|------------|--------------------------------------|-------------------------|---------------------------------------|-----------|-----------|--------------------------------|-----------------------------------|--------------------|-------------------------------------------------------------------------------------|
|        | at $I_z$              | Current    | Suffix A & B                         |                         | A,B,C&D Suffix                        |           |           | No Suffix at $V_z$ of Suffix A |                                   |                    |                                                                                     |
|        | JEDEC Part Number     | $V_z$ (V)  | $I_z$ (mA)                           | $Z_{rz}$ @ $I_z$ (Ohms) | $Z_{rz}$ @ $I_z = 25\text{mA}$ (Ohms) | $V_z$ (V) | $V_z$ (V) |                                | $I_z$ (uA)                        | $I_z$ (uA)         | %/°C                                                                                |
| 1N5221 | 2.4                   | 20         | 30                                   | 1200                    | 0.95                                  | 1.0       | 100       | 200                            | -0.085                            | 1000/<br>10,000    |  |
| 1N5222 | 2.5                   | 20         | 30                                   | 1250                    | 0.95                                  | 1.0       | 100       | 200                            | -0.085                            |                    |                                                                                     |
| 1N5223 | 2.7                   | 20         | 30                                   | 1300                    | 0.95                                  | 1.0       | 75        | 150                            | -0.080                            |                    |                                                                                     |
| 1N5224 | 2.8                   | 20         | 30                                   | 1400                    | 0.95                                  | 1.0       | 75        | 150                            | -0.080                            |                    |                                                                                     |
| 1N5225 | 3.0                   | 20         | 29                                   | 1600                    | 0.95                                  | 1.0       | 50        | 100                            | -0.075                            |                    |                                                                                     |
| 1N5226 | 3.3                   | 20         | 28                                   | 1600                    | 0.95                                  | 1.0       | 25        | 100                            | -0.070                            |                    |                                                                                     |
| 1N5227 | 3.6                   | 20         | 24                                   | 1700                    | 0.95                                  | 1.0       | 15        | 100                            | -0.065                            |                    |                                                                                     |
| 1N5228 | 3.9                   | 20         | 23                                   | 1900                    | 0.95                                  | 1.0       | 10        | 75                             | -0.060                            |                    |                                                                                     |
| 1N5229 | 4.3                   | 20         | 22                                   | 2000                    | 0.95                                  | 1.0       | 5.0       | 50                             | ±0.055                            |                    |                                                                                     |
| 1N5230 | 4.7                   | 20         | 19                                   | 1900                    | 1.9                                   | 2.0       | 5.0       | 50                             | ±0.030                            |                    |                                                                                     |
| 1N5231 | 5.1                   | 20         | 17                                   | 1800                    | 1.9                                   | 2.0       | 5.0       | 50                             | ±0.030                            |                    |                                                                                     |
| 1N5232 | 5.6                   | 20         | 11                                   | 1600                    | 2.9                                   | 3.0       | 5.0       | 50                             | +0.038                            |                    |                                                                                     |
| 1N5233 | 6.0                   | 20         | 7.0                                  | 1600                    | 3.3                                   | 3.5       | 5.0       | 50                             | +0.038                            |                    |                                                                                     |
| 1N5234 | 6.2                   | 20         | 7.0                                  | 1000                    | 3.8                                   | 4.0       | 5.0       | 50                             | +0.045                            |                    |                                                                                     |
| 1N5235 | 6.8                   | 20         | 5.0                                  | 750                     | 4.8                                   | 5.0       | 3.0       | 30                             | +0.050                            |                    |                                                                                     |
| 1N5236 | 7.5                   | 20         | 6.0                                  | 500                     | 5.7                                   | 6.0       | 3.0       | 30                             | +0.058                            |                    |                                                                                     |
| 1N5237 | 8.2                   | 20         | 8.0                                  | 500                     | 6.2                                   | 6.5       | 3.0       | 30                             | +0.062                            |                    |                                                                                     |
| 1N5238 | 8.7                   | 20         | 8.0                                  | 600                     | 6.2                                   | 6.5       | 3.0       | 30                             | +0.065                            |                    |                                                                                     |
| 1N5239 | 9.1                   | 20         | 10                                   | 600                     | 6.7                                   | 7.0       | 3.0       | 30                             | +0.068                            |                    |                                                                                     |
| 1N5240 | 10                    | 20         | 17                                   | 600                     | 7.6                                   | 8.0       | 3.0       | 30                             | +0.075                            |                    |                                                                                     |
| 1N5241 | 11                    | 20         | 22                                   | 600                     | 8.0                                   | 8.4       | 2.0       | 30                             | +0.076                            |                    |                                                                                     |
| 1N5242 | 12                    | 20         | 30                                   | 600                     | 8.7                                   | 9.1       | 1.0       | 10                             | +0.077                            |                    |                                                                                     |
| 1N5243 | 13                    | 9.5        | 13                                   | 600                     | 9.4                                   | 9.9       | 0.5       | 10                             | +0.079                            |                    |                                                                                     |
| 1N5244 | 14                    | 9.0        | 15                                   | 600                     | 9.5                                   | 10        | 0.1       | 10                             | +0.082                            |                    |                                                                                     |
| 1N5245 | 15                    | 8.5        | 16                                   | 600                     | 10.5                                  | 11        | 0.1       | 10                             | +0.082                            |                    |                                                                                     |
| 1N5246 | 16                    | 7.8        | 17                                   | 600                     | 11.4                                  | 12        | 0.1       | 10                             | +0.083                            |                    |                                                                                     |
| 1N5247 | 17                    | 7.4        | 19                                   | 600                     | 12.4                                  | 13        | 0.1       | 10                             | +0.084                            |                    |                                                                                     |
| 1N5248 | 18                    | 7.0        | 21                                   | 600                     | 13.3                                  | 14        | 0.1       | 10                             | +0.085                            |                    |                                                                                     |
| 1N5249 | 19                    | 6.6        | 23                                   | 600                     | 13.3                                  | 14        | 0.1       | 10                             | +0.086                            |                    |                                                                                     |
| 1N5250 | 20                    | 6.2        | 25                                   | 600                     | 14.3                                  | 15        | 0.1       | 10                             | +0.086                            |                    |                                                                                     |
| 1N5251 | 22                    | 5.6        | 29                                   | 600                     | 16.2                                  | 17        | 0.1       | 10                             | +0.087                            |                    |                                                                                     |
| 1N5252 | 24                    | 5.2        | 33                                   | 600                     | 17.1                                  | 18        | 0.1       | 10                             | +0.088                            |                    |                                                                                     |
| 1N5253 | 25                    | 5.0        | 35                                   | 600                     | 18.1                                  | 19        | 0.1       | 10                             | +0.089                            |                    |                                                                                     |
| 1N5254 | 27                    | 4.6        | 41                                   | 600                     | 20                                    | 21        | 0.1       | 10                             | +0.090                            |                    |                                                                                     |
| 1N5255 | 28                    | 4.5        | 44                                   | 600                     | 20                                    | 21        | 0.1       | 10                             | +0.091                            |                    |                                                                                     |
| 1N5256 | 30                    | 4.2        | 49                                   | 600                     | 22                                    | 23        | 0.1       | 10                             | +0.091                            |                    |                                                                                     |
| 1N5257 | 33                    | 3.8        | 58                                   | 700                     | 24                                    | 25        | 0.1       | 10                             | +0.092                            |                    |                                                                                     |
| 1N5258 | 36                    | 3.4        | 70                                   | 700                     | 26                                    | 27        | 0.1       | 10                             | +0.093                            |                    |                                                                                     |
| 1N5259 | 39                    | 3.2        | 80                                   | 800                     | 29                                    | 30        | 0.1       | 10                             | +0.094                            |                    |                                                                                     |
| 1N5260 | 43                    | 3.0        | 93                                   | 900                     | 31                                    | 33        | 0.1       | 10                             | +0.095                            |                    |                                                                                     |
| 1N5261 | 47                    | 2.7        | 105                                  | 1000                    | 34                                    | 36        | 0.1       | 10                             | +0.095                            |                    |                                                                                     |
| 1N5262 | 51                    | 2.5        | 125                                  | 1100                    | 37                                    | 39        | 0.1       | 10                             | +0.096                            |                    |                                                                                     |
| 1N5263 | 56                    | 2.2        | 150                                  | 1300                    | 41                                    | 43        | 0.1       | 10                             | +0.096                            |                    |                                                                                     |
| 1N5264 | 60                    | 2.1        | 170                                  | 1400                    | 44                                    | 46        | 0.1       | 10                             | +0.097                            |                    |                                                                                     |
| 1N5265 | 62                    | 2.0        | 185                                  | 1400                    | 45                                    | 47        | 0.1       | 10                             | +0.097                            |                    |                                                                                     |
| 1N5266 | 68                    | 1.8        | 230                                  | 1600                    | 49                                    | 52        | 0.1       | 10                             | +0.097                            |                    |                                                                                     |
| 1N5267 | 75                    | 1.7        | 270                                  | 1700                    | 53                                    | 56        | 0.1       | 10                             | +0.098                            |                    |                                                                                     |
| 1N5268 | 82                    | 1.5        | 330                                  | 2000                    | 59                                    | 62        | 0.1       | 10                             | +0.098                            |                    |                                                                                     |
| 1N5269 | 87                    | 1.4        | 370                                  | 2200                    | 65                                    | 68        | 0.1       | 10                             | +0.099                            |                    |                                                                                     |
| 1N5270 | 91                    | 1.4        | 400                                  | 2300                    | 66                                    | 69        | 0.1       | 10                             | +0.099                            |                    |                                                                                     |
| 1N5271 | 100                   | 1.3        | 500                                  | 2600                    | 72                                    | 76        | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5272 | 110                   | 1.1        | 750                                  | 3000                    | 80                                    | 84        | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5273 | 120                   | 1.0        | 900                                  | 4000                    | 86                                    | 91        | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5274 | 130                   | 0.95       | 1100                                 | 4500                    | 94                                    | 99        | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5275 | 140                   | 0.90       | 1300                                 | 4500                    | 101                                   | 106       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5276 | 150                   | 0.85       | 1500                                 | 5000                    | 108                                   | 114       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5277 | 160                   | 0.80       | 1700                                 | 5500                    | 116                                   | 122       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5278 | 170                   | 0.74       | 1900                                 | 5500                    | 123                                   | 129       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5279 | 180                   | 0.68       | 2200                                 | 6000                    | 130                                   | 137       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5280 | 190                   | 0.66       | 2400                                 | 6500                    | 137                                   | 144       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |
| 1N5281 | 200                   | 0.65       | 2500                                 | 7000                    | 144                                   | 152       | 0.1       | 10                             | +0.110                            |                    |                                                                                     |

1000/  
10,000

**FEATURES:**

- Zener Voltage: 2.4 to 200 volts
- Hermetically sealed DO-35.

**MAXIMUM RATINGS:**

- Junction Temperature:  
-65°C to +200°C
- Storage temperature:  
-65°C to +200°C
- DC Power Dissipation:  
500 mW at  $T_A = 75^\circ\text{C}$
- Derate above 75°C :  
4.0 mW/°C
- Forward Voltage @ 200 mA:  
1.1 volts max.

Standard (B Suffix) Voltage  
Tolerance is ±5%.  
Suffix A = ±10%  
Suffix C = ±2%,  
Suffix D = ±1%

## FEATURES:

- Zener Voltage: 2.4 to 200 volts
- Hermetically sealed DO-35.

## MAXIMUM RATINGS:

- Junction Temperature: -65°C to +200°C
- Storage temperature: -65°C to +200°C
- DC Power Dissipation: 500 mW at  $T_A = 75^\circ\text{C}$
- Derate above 75°C: 4.0 mW/°C
- Forward Voltage @ 200 mA: 1.1 volts max.

## Standard (B Suffix) Voltage

Tolerance is ±5%.  
 Suffix A = ±10%  
 Suffix C = ±2%  
 Suffix D = ±1%