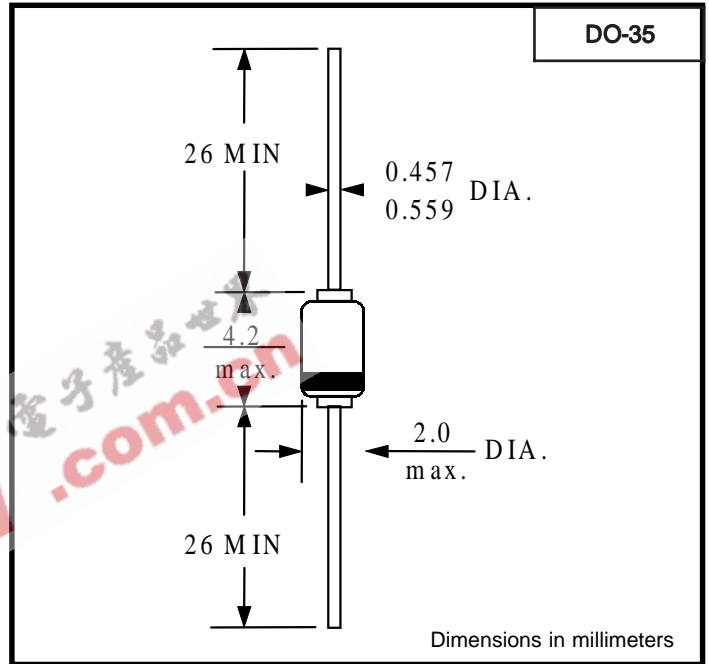


500mW 5% DO-35 ZENER DIODE

Absolute Maximun Ratings (Ta=25°C)

| Items | Symbol | Ratings | Unit |
|---------------------------------|-----------|------------|-------|
| Power Dissipation | P_{TOT} | 500 | mW |
| Power Derating (above 75 °C) | | 4.0 | mW/°C |
| Forward Voltage @If = 10 mA | Vf | 1.2 | V |
| Vz Tolarence | | 5 | % |
| Junction Temp. | T_J | -65 to 175 | °C |
| Storage Temp. | T_{STG} | -65 to 175 | °C |

Dimensions



Mechanical Data

| Items | Materials |
|-------------|----------------------------|
| Package | DO-35 |
| Case | Hermetically sealed glass |
| Lead/Finish | Double Stud/Solder Plating |
| Chip | Glass Passivated |

Electrical Characteristics (Ta=25°C)

| TYPE | ZENER VOLTAGE | | MAX ZENER IMPEDANCE | | MAX ZENER IMPEDANCE Izt = 0.25mA Rz (ohms) | MAXIMUM REVERSE CURRENT | | TEMP. COEFF. dvz (%/ °C) |
|---------|---------------|---------|---------------------|----------|--|-------------------------|---------|--------------------------------|
| | Vz(V) | Izt(mA) | Rz (ohms) | Izt(mA0) | | VR (V) | IR (uA) | |
| 1N5223B | 2.7 | 20 | 30 | 20 | 1300 | 1.0 | 75 | -0.080 |
| 1N5224B | 2.8 | 20 | 30 | 20 | 1400 | 1.0 | 75 | -0.080 |
| 1N5225B | 3.0 | 20 | 29 | 20 | 1600 | 1.0 | 50 | -0.075 |
| 1N5226B | 3.3 | 20 | 28 | 20 | 1600 | 1.0 | 25 | -0.070 |
| 1N5227B | 3.6 | 20 | 24 | 20 | 1700 | 1.0 | 15 | -0.065 |
| 1N5228B | 3.9 | 20 | 23 | 20 | 1900 | 1.0 | 10 | -0.060 |
| 1N5229B | 4.3 | 20 | 22 | 20 | 2000 | 1.0 | 5 | +/-0.055 |
| 1N5230B | 4.7 | 20 | 19 | 20 | 1900 | 2.0 | 5 | +/-0.030 |
| 1N5231B | 5.1 | 20 | 17 | 20 | 1600 | 2.0 | 5 | +/-0.030 |
| 1N5232B | 5.6 | 20 | 11 | 20 | 1600 | 3.0 | 5 | +/-0.038 |
| 1N5233B | 6.0 | 20 | 7 | 20 | 1600 | 3.5 | 5 | +/-0.038 |
| 1N5234B | 6.2 | 20 | 7 | 20 | 1000 | 4.0 | 5 | +0.045 |
| 1N5235B | 6.8 | 20 | 5 | 20 | 750 | 5.6 | 3 | +0.050 |

Electrical Characteristics (Ta=25°C)

| TYPE | ZENER VOLTAGE | | MAX ZENER IMPEDANCE | | MAX ZENER IMPEDANCE Izt = 0.25mA | MAXIMUM REVERSE CURRENT | | TEMP. COEFF. |
|----------|---------------|---------|---------------------|----------|-------------------------------------|-------------------------|---------|----------------|
| | Vz(V) | Izt(mA) | Rz (ohms) | Izt(mA0) | Rz (ohms) | VR (V) | IR (uA) | dvz (%/ °C) |
| 1N5236B | 7.5 | 20 | 6 | 20 | 500 | 6.0 | 3.0 | +0.058 |
| 1N5237B | 8.2 | 20 | 8 | 20 | 500 | 6.5 | 3.0 | +0.062 |
| 1N5238B | 8.7 | 20 | 8 | 20 | 600 | 6.5 | 3.0 | +0.065 |
| 1N5239B | 9.1 | 20 | 10 | 20 | 600 | 7.0 | 3.0 | +0.068 |
| 1N5240B | 10 | 20 | 17 | 20 | 600 | 8.0 | 3.0 | +0.075 |
| 1N5241B | 11 | 20 | 22 | 20 | 600 | 8.4 | 2.0 | +0.076 |
| 1N5242B | 12 | 20 | 30 | 20 | 600 | 9.1 | 1.0 | +0.077 |
| 1N5243B | 13 | 9.5 | 13 | 9.5 | 600 | 9.9 | 0.5 | +0.079 |
| 1N5244B | 14 | 9.0 | 15 | 9.0 | 600 | 10 | 0.1 | +0.082 |
| 1N5245B | 15 | 8.5 | 16 | 8.5 | 600 | 11 | 0.1 | +0.082 |
| 1N5246B | 16 | 7.8 | 17 | 7.8 | 600 | 12 | 0.1 | +0.083 |
| 1N5247B | 17 | 7.4 | 19 | 7.4 | 600 | 13 | 0.1 | +0.084 |
| 1N5248B | 18 | 7.0 | 21 | 7.0 | 600 | 14 | 0.1 | +0.085 |
| 1N5249B | 19 | 6.6 | 23 | 6.6 | 600 | 14 | 0.1 | +0.086 |
| 1N5250B | 20 | 6.2 | 25 | 6.2 | 600 | 15 | 0.1 | +0.086 |
| 1N5251B | 22 | 5.6 | 29 | 5.6 | 600 | 17 | 0.1 | +0.087 |
| 1N5252B | 24 | 5.2 | 33 | 5.2 | 600 | 18 | 0.1 | +0.088 |
| 1N5253B | 25 | 5.0 | 35 | 5.0 | 600 | 19 | 0.1 | +0.089 |
| 1N5254B | 27 | 4.6 | 41 | 4.6 | 600 | 21 | 0.1 | +0.090 |
| 1N5255B | 28 | 4.5 | 44 | 4.5 | 600 | 21 | 0.1 | +0.091 |
| 1N5256B | 30 | 4.2 | 49 | 4.2 | 600 | 23 | 0.1 | +0.091 |
| 1N5257B | 33 | 3.8 | 58 | 3.8 | 700 | 25 | 0.1 | +0.092 |
| 1N5258B | 36 | 3.4 | 70 | 3.4 | 700 | 27 | 0.1 | +0.093 |
| 1N52459B | 39 | 3.2 | 80 | 3.2 | 800 | 30 | 0.1 | +0.094 |
| 1N5260B | 43 | 3.0 | 93 | 3.0 | 900 | 33 | 0.1 | +0.095 |
| 1N5261B | 47 | 2.7 | 105 | 2.7 | 1000 | 36 | 0.1 | +0.095 |

Notes:

- The Electrical characteristics are measured after allowing the device to stabilize for 20 sec. when mounted with a 3/8" minimum lead length from the case.
- Temperature Coefficient (dvz)
 - Izt= 7.5ma, T1= 25°C, T2= 125°C (1N5223B - 1N5242B)
 - Izt= rated Izt, T1= 25°C, T2= 125°C (1N5243B - 1N5261B)