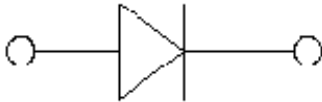


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.4V~75V



Mechanical Data

- **Package:** SOD-123
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

| PARAMETER | SYMBOL | UNIT | VALUE |
|---|------------------|-------|---------------------------------|
| Power Dissipation | P _D | mW | 500 |
| Storage Temperature Range | T _{stg} | °C | -55~+150 |
| Junction Temperature | T _J | °C | -55~+150 |
| Maximum Regulator Current | I _{ZM} | mA | P _D / V _Z |
| Forward Voltage(@I _F =10mA) | V _F | V | 1.0 |
| Thermal Resistance Junction to Ambient Air* | R _{θJA} | °C /W | 250 |

■ Ordering Information (Example)

| PREFERRED P/N | PACKING CODE | UNIT WEIGHT(g) | MINIMUM PACKAGE(pcs) | INNER BOX QUANTITY(pcs) | OUTER CARTON QUANTITY(pcs) | DELIVERY MODE |
|-------------------------|--------------|-------------------|----------------------|-------------------------|----------------------------|---------------|
| BZT52B2V4 THRU BZT52B75 | F2 | Approximate 0.009 | 3000 | 30000 | 120000 | 7" reel |



BZT52B2V4 THRU BZT52B75

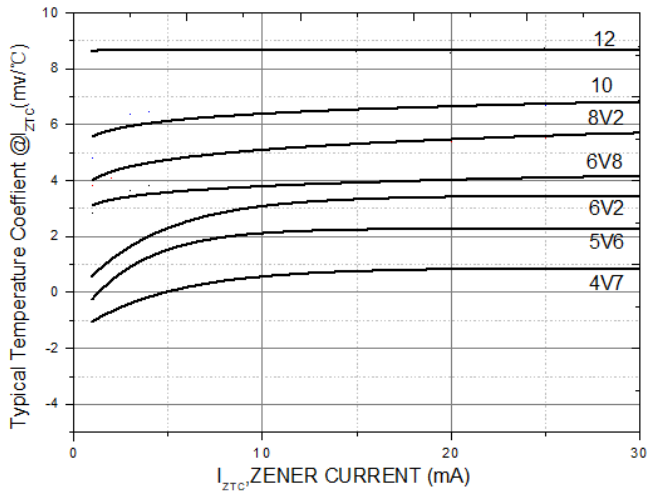
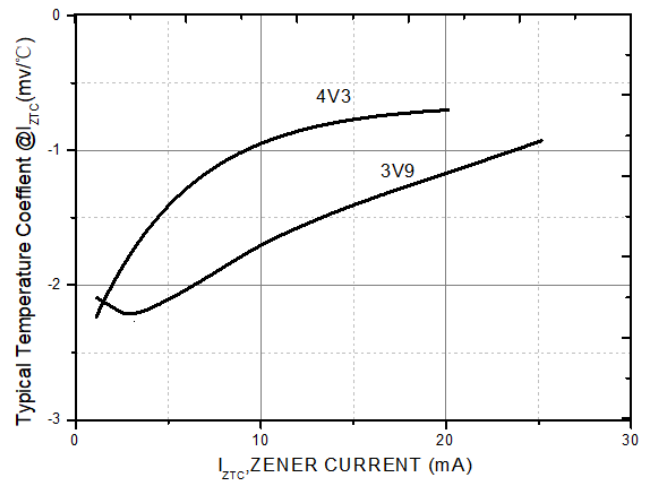
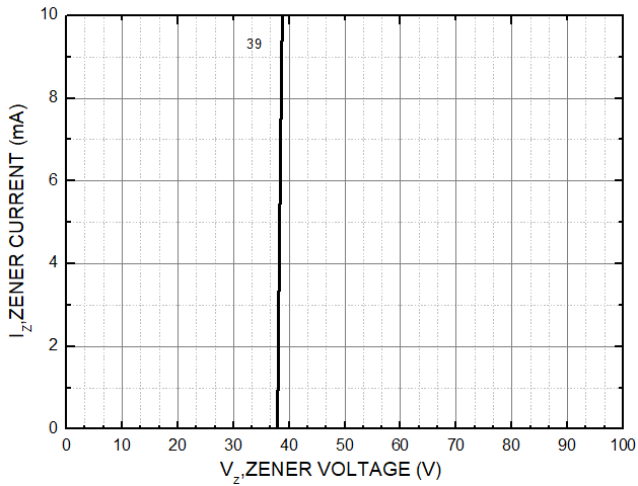
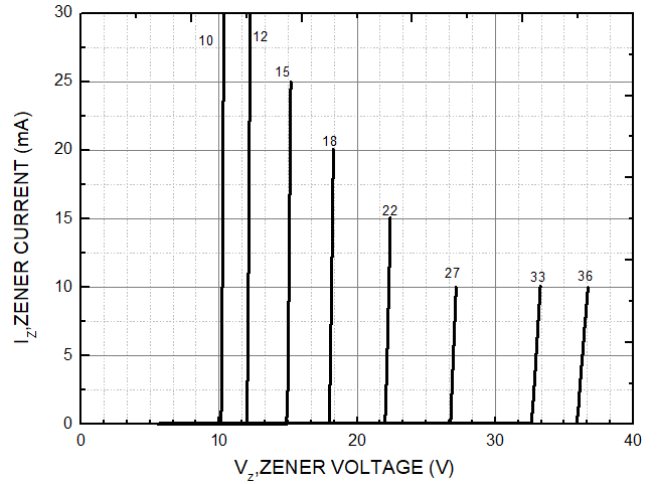
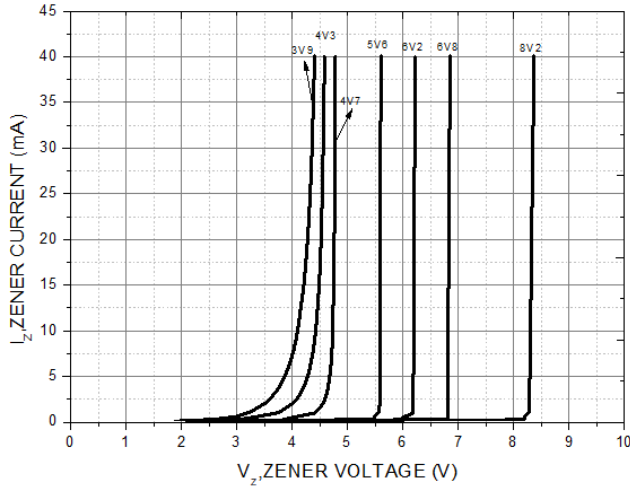
■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

| Type Number | Device Marking | V _z at I _{ZT} (V) | | | Z _{zT} (Ω) | | Z _{zk} (Ω) | | I _R (μA)@V _R | | Typical Temperature Coefficient@ IZTC mV/°C | | Test Current IZTC |
|-------------|----------------|---------------------------------------|------|-------|----------------------|------|----------------------|------|------------------------------------|--------------------|---|------|-------------------|
| | | min. | typ. | max. | I _{ZT} (mA) | max. | I _{zk} (mA) | max. | max | V _R (V) | Min | Max | mA |
| BZT52B2V4 | 2WX | 2.34 | 2.4 | 2.46 | 5 | 100 | 1.0 | 600 | 45 | 1.0 | -3.5 | 0 | 5 |
| BZT52B2V7 | 2W1 | 2.63 | 2.7 | 2.77 | 5 | 100 | 1.0 | 600 | 20 | 1.0 | -3.5 | 0 | 5 |
| BZT52B3V0 | 2W2 | 2.92 | 3.0 | 3.08 | 5 | 100 | 1.0 | 600 | 10 | 1.0 | -3.5 | 0 | 5 |
| BZT52B3V3 | 2W3 | 3.21 | 3.3 | 3.39 | 5 | 95 | 1.0 | 600 | 15 | 1.0 | -3.5 | 0 | 5 |
| BZT52B3V6 | 2W4 | 3.52 | 3.6 | 3.67 | 5 | 95 | 1.0 | 600 | 15 | 1.0 | -3.5 | 0 | 5 |
| BZT52B3V9 | 2W5 | 3.82 | 3.9 | 3.98 | 5 | 95 | 1.0 | 600 | 10 | 1.0 | -3.5 | 0 | 5 |
| BZT52B4V3 | 2W6 | 4.21 | 4.3 | 4.39 | 5 | 95 | 1.0 | 600 | 5 | 1.0 | -3.5 | 0 | 5 |
| BZT52B4V7 | 2W7 | 4.61 | 4.7 | 4.79 | 5 | 78 | 1.0 | 500 | 5 | 2.0 | -3.5 | 0 | 5 |
| BZT52B5V1 | 2W8 | 5.0 | 5.1 | 5.2 | 5 | 60 | 1.0 | 480 | 0.1 | 0.8 | -2.7 | 1.2 | 5 |
| BZT52B5V6 | 2W9 | 5.49 | 5.6 | 5.71 | 5 | 40 | 1.0 | 400 | 0.1 | 1.0 | -2 | 2.5 | 5 |
| BZT52B6V2 | 2WA | 6.08 | 6.2 | 6.32 | 5 | 10 | 1.0 | 150 | 0.1 | 2.0 | 0.4 | 3.7 | 5 |
| BZT52B6V8 | 2WB | 6.66 | 6.8 | 6.94 | 5 | 8 | 1.0 | 80 | 0.1 | 3.0 | 1.2 | 4.5 | 5 |
| BZT52B7V5 | 2WC | 7.35 | 7.5 | 7.65 | 5 | 7 | 1.0 | 80 | 0.1 | 5.0 | 2.5 | 5.3 | 5 |
| BZT52B8V2 | 2WD | 8.04 | 8.2 | 8.36 | 5 | 7 | 1.0 | 80 | 0.1 | 6.0 | 3.2 | 6.2 | 5 |
| BZT52B9V1 | 2WE | 8.92 | 9.1 | 9.28 | 5 | 10 | 1.0 | 100 | 0.1 | 7.0 | 3.8 | 7.0 | 5 |
| BZT52B10 | 2WF | 9.8 | 10 | 10.2 | 5 | 15 | 1.0 | 150 | 0.1 | 7.5 | 4.5 | 8.0 | 5 |
| BZT52B11 | 2WG | 10.78 | 11 | 11.22 | 5 | 20 | 1.0 | 150 | 0.1 | 8.5 | 5.4 | 9.0 | 5 |
| BZT52B12 | 2WH | 11.76 | 12 | 12.24 | 5 | 20 | 1.0 | 150 | 0.1 | 9.0 | 6.0 | 10.0 | 5 |
| BZT52B13 | 2WI | 12.74 | 13 | 13.3 | 5 | 25 | 1.0 | 170 | 0.1 | 10.0 | 7.0 | 11.0 | 5 |
| BZT52B15 | 2WJ | 14.7 | 15 | 15.3 | 5 | 30 | 1.0 | 200 | 0.1 | 11.0 | 9.2 | 13.0 | 5 |
| BZT52B16 | 2WK | 15.68 | 16 | 16.3 | 5 | 40 | 1.0 | 200 | 0.1 | 12 | 10.4 | 14.0 | 5 |
| BZT52B18 | 2WL | 17.6 | 18 | 18.4 | 5 | 50 | 1.0 | 225 | 0.1 | 14.0 | 12.4 | 16.0 | 5 |
| BZT52B20 | 2WM | 19.6 | 20 | 20.4 | 5 | 55 | 1.0 | 225 | 0.1 | 15.0 | 14.4 | 18.0 | 5 |
| BZT52B22 | 2WN | 21.56 | 22 | 22.44 | 5 | 55 | 1.0 | 250 | 0.1 | 17.0 | 16.4 | 20.0 | 5 |
| BZT52B24 | 2WO | 23.52 | 24 | 24.5 | 5 | 70 | 1.0 | 250 | 0.1 | 18.0 | 18.4 | 22.0 | 5 |
| BZT52B27 | 2WP | 26.46 | 27 | 27.54 | 5 | 80 | 1.0 | 300 | 0.1 | 20.0 | 21.4 | 25.3 | 2 |
| BZT52B30 | 2WQ | 29.4 | 30 | 30.6 | 5 | 80 | 1.0 | 300 | 0.1 | 22.5 | 24.4 | 29.4 | 2 |
| BZT52B33 | 2WR | 32.34 | 33 | 33.7 | 5 | 80 | 1.0 | 325 | 0.1 | 25.0 | 27.4 | 33.4 | 2 |
| BZT52B36 | 2WS | 35.28 | 36 | 36.72 | 5 | 90 | 1.0 | 350 | 0.1 | 27.0 | 30.4 | 37.4 | 2 |
| BZT52B39 | 2WT | 38.22 | 39 | 39.8 | 5 | 90 | 1.0 | 350 | 0.1 | 29.0 | 33.4 | 41.2 | 2 |
| BZT52B43 | 2WU | 42.14 | 43 | 43.86 | 5 | 100 | 1 | 375 | 0.1 | 32.0 | 37.6 | 46.6 | 2 |
| BZT52B47 | 2WV | 46.06 | 47 | 47.94 | 5 | 110 | 1 | 375 | 0.1 | 35.0 | 42.0 | 51.8 | 2 |
| BZT52B51 | 2X1 | 50.0 | 51 | 52.0 | 2 | 180 | 0.5 | 400 | 0.05 | 35.7 | 46.6 | 57.2 | 2 |
| BZT52B56 | 2X2 | 54.9 | 56 | 57.1 | 2 | 200 | 0.5 | 425 | 0.05 | 39.2 | 52.2 | 63.8 | 2 |
| BZT52B62 | X3 | 60.8 | 62 | 63.2 | 2 | 215 | 0.5 | 450 | 0.05 | 43.4 | 58.8 | 71.6 | 2 |
| BZT52B68 | X4 | 66.6 | 68 | 69.4 | 2 | 240 | 0.5 | 475 | 0.05 | 47.6 | 65.6 | 79.8 | 2 |
| BZT52B75 | X5 | 73.5 | 75 | 76.5 | 2 | 255 | 0.5 | 500 | 0.05 | 52.5 | 73.4 | 88.6 | 2 |



BZT52B2V4 THRU BZT52B75

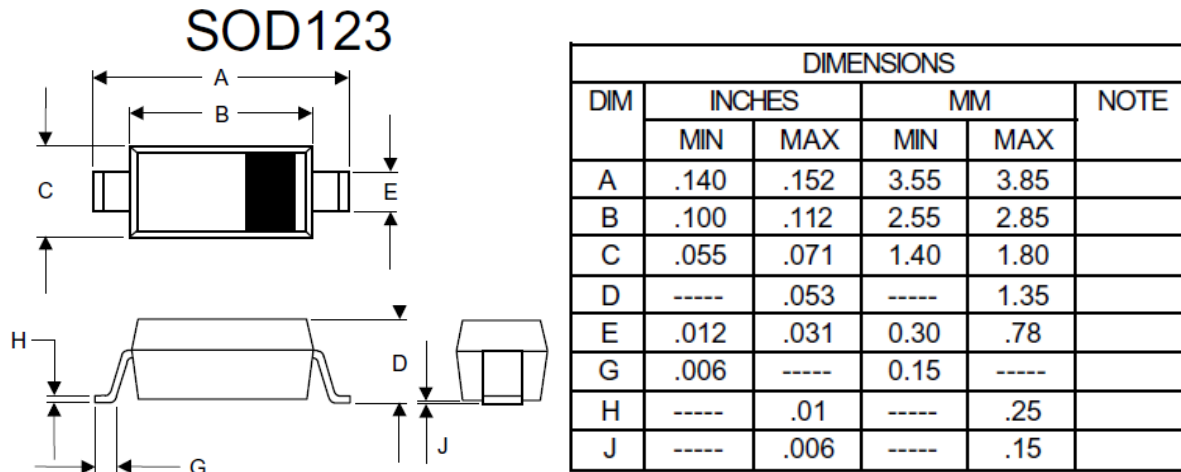
■ Characteristics (Typical)



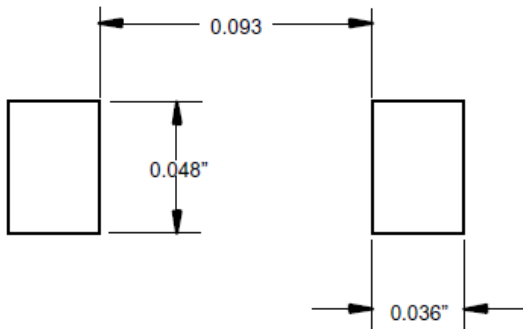


BZT52B2V4 THRU BZT52B75

■ SOD-123 Package Outline Dimensions



■ SOD-123 Soldering Footprint



Unit: inches



BZT52B2V4 THRU BZT52B75

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