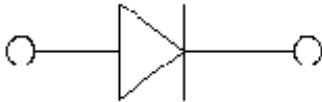


## Zener Diodes



### 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<sub>a</sub>=25°C Unless otherwise specified)

| PARAMETER                                   | SYMBOL           | UNIT  | VALUE                           |
|---|------------------|-------|---------------------------------|
| Power Dissipation                           | P <sub>D</sub>   | mW    | 500                             |
| Storage Temperature Range                   | T <sub>stg</sub> | °C    | -55~+150                        |
| Junction Temperature                        | T <sub>J</sub>   | °C    | -55~+150                        |
| Maximum Regulator Current                   | I <sub>ZM</sub>  | mA    | P <sub>D</sub> / V <sub>Z</sub> |
| Forward Voltage(@I <sub>F</sub> =10mA)      | V <sub>F</sub>   | V     | 1.0                             |
| Thermal Resistance Junction to Ambient Air* | R <sub>θJA</sub> | °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

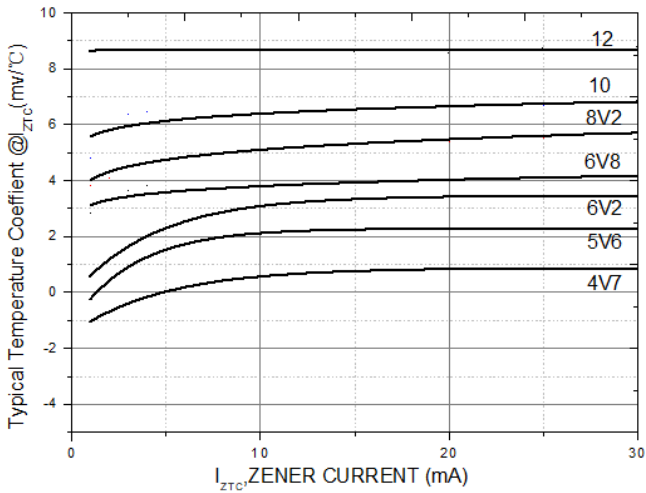
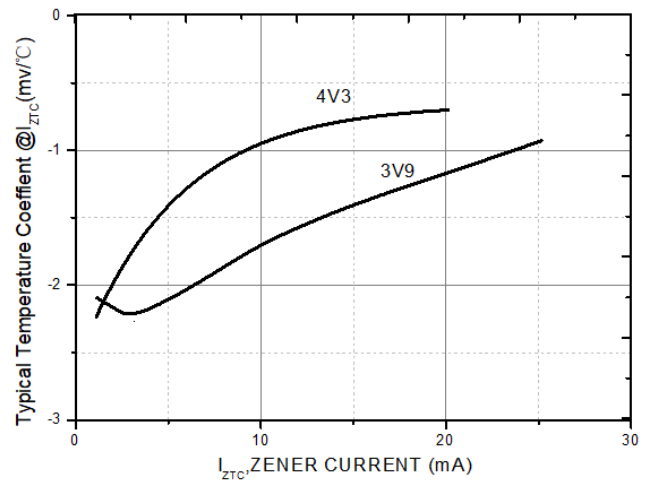
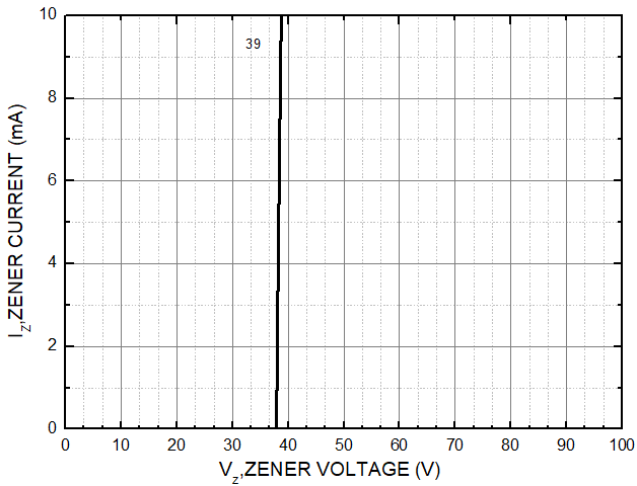
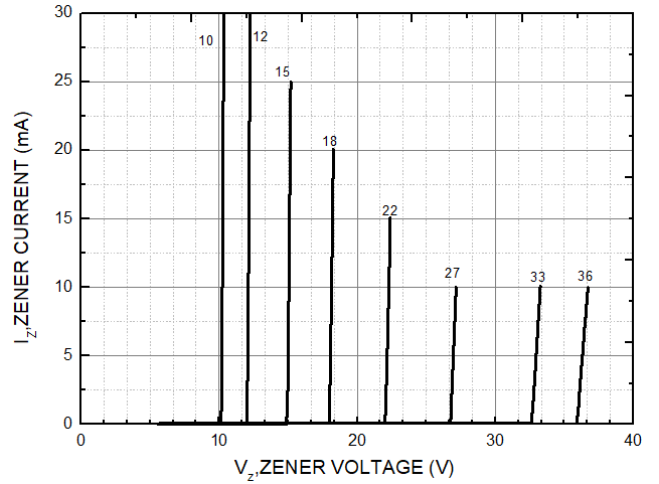
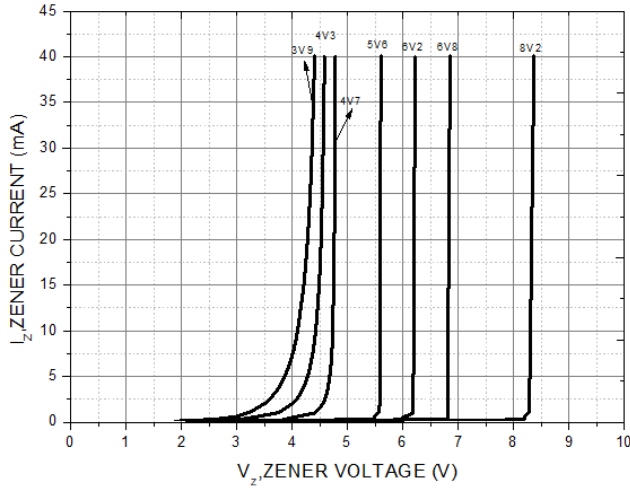
## ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

| Type Number | Device Marking | V <sub>z</sub> at I <sub>ZT</sub> (V) |      |       | Z <sub>zT</sub> (Ω)  |      | Z <sub>zk</sub> (Ω)  |      | I <sub>R</sub> (μA)@V <sub>R</sub> |                    | Typical Temperature Coefficient@ IZTC mV/°C |      | Test Current IZTC |
|-------------|----------------|---------------------------------------|------|-------|----------------------|------|----------------------|------|------------------------------------|--------------------|---|------|-------------------|
|             |                | min.                                  | typ. | max.  | I <sub>ZT</sub> (mA) | max. | I <sub>zk</sub> (mA) | max. | max                                | V <sub>R</sub> (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

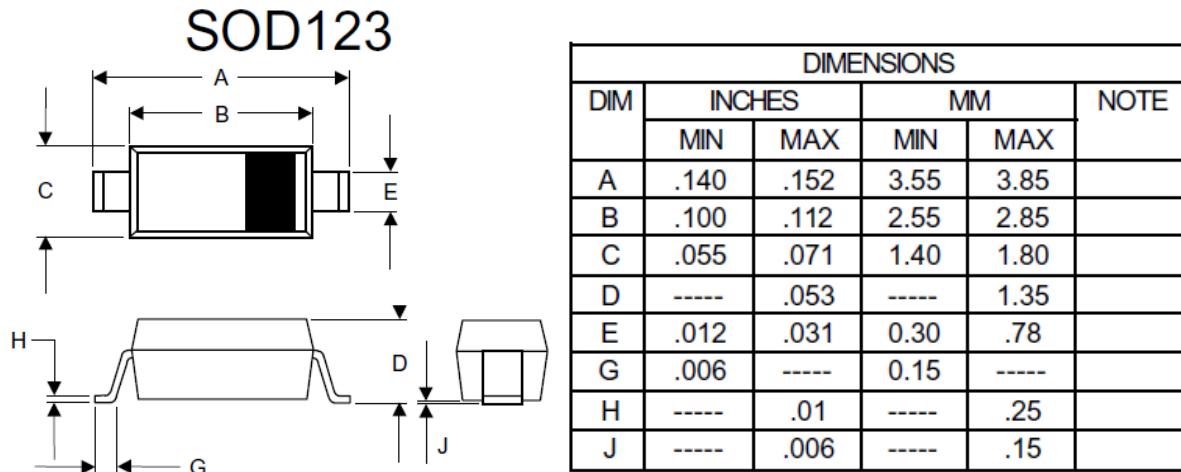
## ■ Characteristics (Typical)



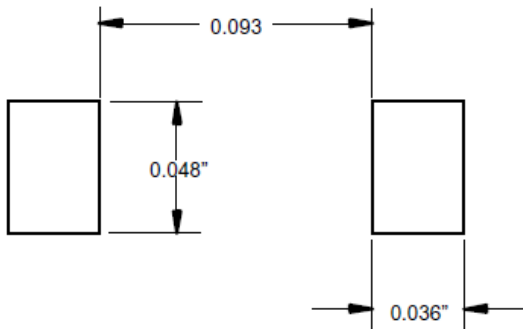


## BZT52B2V4 THRU BZT52B75

### ■ SOD-123 Package Outline Dimensions



### ■ SOD-123 Soldering Footprint



Unit: inches



## BZT52B2V4 THRU BZT52B75

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