

### Features

- Standard Vz Tolerance is  $\pm 2\%$
- 200mW Power Dissipation
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### Maximum Ratings

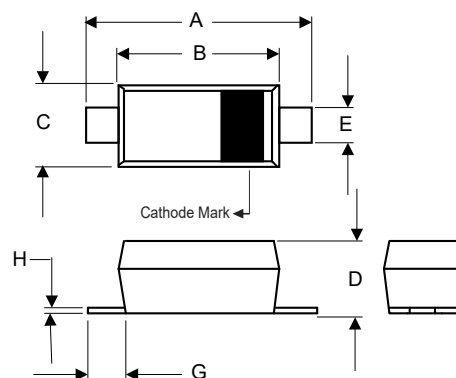
- Operating Junction Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Thermal Resistance :  $625^{\circ}\text{C/W}$  Junction To Ambient

| Parameter               | Symbol | Rating | Unit              |
|-------------------------|--------|--------|-------------------|
| Power Dissipation       | $P_D$  | 200    | mW                |
| Maximum Forward Voltage | VF     | 0.9V   | $I_F=10\text{mA}$ |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

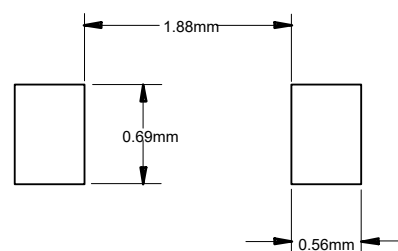
**200 mW  
Zener Diode  
2.4 to 75 Volts**

### SOD-323FL



| DIM | INCHES |       | MM   |      | NOTE |
|-----|--------|-------|------|------|------|
|     | MIN    | MAX   | MIN  | MAX  |      |
| A   | 0.090  | 0.107 | 2.30 | 2.70 |      |
| B   | 0.063  | 0.078 | 1.60 | 1.95 |      |
| C   | 0.045  | 0.053 | 1.15 | 1.35 |      |
| D   | 0.024  | 0.035 | 0.60 | 0.90 |      |
| E   | 0.010  | 0.016 | 0.25 | 0.40 |      |
| G   | 0.016  |       | 0.40 |      | TYP. |
| H   | 0.002  | 0.008 | 0.05 | 0.21 |      |

### SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

| MCC Part Number | Zener Voltage <sup>(2)</sup>     |        |         | Maximum Zener Impedance |                 | Maximum Zener Impedance |                 | Maximum Reverse Current |                | Marking Code |
|-----------------|----------------------------------|--------|---------|-------------------------|-----------------|-------------------------|-----------------|-------------------------|----------------|--------------|
|                 | V <sub>Z</sub> @ I <sub>ZT</sub> |        |         | Z <sub>ZT</sub>         | I <sub>ZT</sub> | Z <sub>ZK</sub>         | I <sub>ZK</sub> | I <sub>R</sub>          | V <sub>R</sub> |              |
|                 | Min.(V)                          | Nom(V) | Max.(V) | Ω                       | mA              | Ω                       | mA              | μA                      | V              |              |
| BZT52B2V4LS     | 2.45                             | 2.53   | 2.61    | 100                     | 5               | 1000                    | 0.5             | 120                     | 1.0            | 2.4          |
| BZT52B2V7LS     | 2.71                             | 2.80   | 2.89    | 110                     | 5               | 1000                    | 0.5             | 100                     | 1.0            | 2.7          |
| BZT52B3V0LS     | 3.03                             | 3.12   | 3.20    | 120                     | 5               | 1000                    | 0.5             | 50                      | 1.0            | 3.0          |
| BZT52B3V3LS     | 3.34                             | 3.43   | 3.51    | 120                     | 5               | 1000                    | 0.5             | 20                      | 1.0            | 3.3          |
| BZT52B3V6LS     | 3.53                             | 3.60   | 3.67    | 100                     | 5               | 1000                    | 1               | 10                      | 1.0            | 3.6          |
| BZT52B3V9LS     | 3.82                             | 3.90   | 3.98    | 100                     | 5               | 1000                    | 1               | 5                       | 1.0            | 3.9          |
| BZT52B4V3LS     | 4.21                             | 4.30   | 4.39    | 100                     | 5               | 1000                    | 1               | 5                       | 1.0            | 4.3          |
| BZT52B4V7LS     | 4.61                             | 4.70   | 4.79    | 100                     | 5               | 800                     | 1               | 2                       | 1.0            | 4.7          |
| BZT52B5V6LS     | 5.49                             | 5.60   | 5.71    | 60                      | 5               | 400                     | 1               | 1                       | 1.0            | 5.6          |
| BZT52B6V2LS     | 6.08                             | 6.20   | 6.32    | 60                      | 5               | 150                     | 1               | 1                       | 2.0            | 6.2          |
| BZT52B6V8LS     | 6.66                             | 6.80   | 6.94    | 40                      | 5               | 80                      | 1               | 0.5                     | 3.0            | 6.8          |
| BZT52B7V5LS     | 7.35                             | 7.50   | 7.65    | 30                      | 5               | 60                      | 1               | 0.5                     | 5.0            | 7.5          |
| BZT52B8V2LS     | 8.04                             | 8.20   | 8.36    | 30                      | 5               | 60                      | 1               | 0.5                     | 6.1            | 8.2          |
| BZT52B9V1LS     | 8.92                             | 9.10   | 9.28    | 30                      | 5               | 60                      | 1               | 0.5                     | 6.8            | 9.1          |
| BZT52B10LS      | 9.80                             | 10.0   | 10.20   | 30                      | 5               | 70                      | 1               | 0.1                     | 7.5            | 10.          |
| BZT52B11LS      | 10.78                            | 11.0   | 11.22   | 30                      | 5               | 70                      | 1               | 0.1                     | 8.2            | 11.          |
| BZT52B12LS      | 11.76                            | 12.0   | 12.24   | 30                      | 5               | 90                      | 1               | 0.1                     | 9.0            | 12.          |
| BZT52B13LS      | 12.74                            | 13.0   | 13.26   | 40                      | 5               | 110                     | 1               | 0.1                     | 9.7            | 13.          |
| BZT52B15LS      | 14.70                            | 15.0   | 15.30   | 45                      | 5               | 110                     | 1               | 0.1                     | 11             | 15.          |
| BZT52B16LS      | 15.68                            | 16.0   | 16.32   | 50                      | 5               | 170                     | 1               | 0.1                     | 12             | 16.          |
| BZT52B18LS      | 17.64                            | 18.0   | 18.36   | 65                      | 5               | 170                     | 1               | 0.1                     | 14             | 18.          |
| BZT52B20LS      | 19.60                            | 20.0   | 20.40   | 85                      | 5               | 220                     | 1               | 0.1                     | 15             | 20.          |
| BZT52B22LS      | 21.56                            | 22.0   | 22.44   | 100                     | 5               | 220                     | 1               | 0.1                     | 17             | 22.          |
| BZT52B24LS      | 23.52                            | 24.0   | 24.48   | 120                     | 5               | 220                     | 1               | 0.1                     | 18             | 24.          |
| BZT52B27LS      | 26.46                            | 27.0   | 27.54   | 150                     | 5               | 220                     | 1               | 0.1                     | 20             | 27.          |
| BZT52B30LS      | 29.40                            | 30.0   | 30.60   | 200                     | 5               | 220                     | 1               | 0.1                     | 22             | 30.          |
| BZT52B33LS      | 32.34                            | 33.0   | 33.66   | 250                     | 5               | 250                     | 1               | 0.1                     | 24             | 33.          |
| BZT52B36LS      | 35.28                            | 36.0   | 36.72   | 300                     | 5               | 300                     | 1               | 0.1                     | 27             | 36.          |
| BZT52B39LS      | 38.22                            | 39.0   | 39.78   | 130                     | 5               | 350                     | 0.5             | 0.1                     | 27.3           | 39.          |
| BZT52B43LS      | 42.14                            | 43.0   | 43.86   | 130                     | 5               | 350                     | 0.5             | 0.1                     | 29.4           | 43.          |
| BZT52B47LS      | 45.83                            | 47.0   | 48.17   | 170                     | 5               | 1000                    | 0.25            | 0.1                     | 36             | 47.          |
| BZT52B51LS      | 49.73                            | 51.0   | 52.27   | 180                     | 5               | 1300                    | 0.25            | 0.1                     | 39             | 51.          |
| BZT52B56LS      | 54.60                            | 56.0   | 57.40   | 200                     | 5               | 1400                    | 0.25            | 0.1                     | 43             | 56.          |
| BZT52B62LS      | 60.45                            | 62.0   | 63.55   | 225                     | 5               | 1400                    | 0.25            | 0.1                     | 47             | 62.          |
| BZT52B68LS      | 66.30                            | 68.0   | 69.70   | 240                     | 5               | 1600                    | 0.25            | 0.1                     | 52             | 68.          |
| BZT52B75LS      | 73.13                            | 75.0   | 76.87   | 265                     | 5               | 1700                    | 0.25            | 0.1                     | 56             | 75.          |

Note : 2.Pulse width = 10 ms

### Curve Characteristics

Fig. 1 - Power Derating Curve

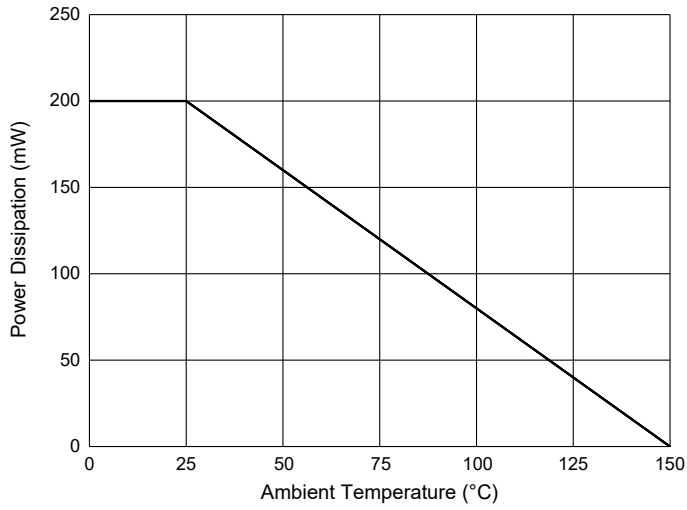
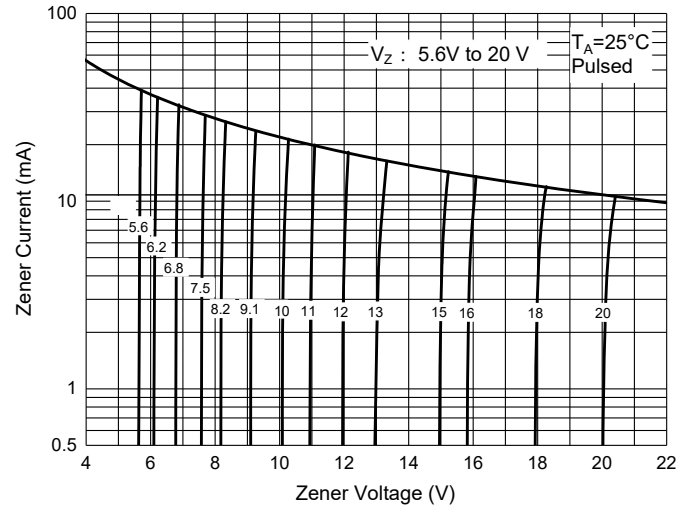


Fig. 2 - Typical Zener Breakdown Characteristics



## Ordering Information

| Device         | Packing              |
|----------------|----------------------|
| Part Number-TP | Tape&Reel:3Kpcs/Reel |

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