

**Features**

- Standard Vz Tolerance is  $\pm 2\%$
- 350mW Power Dissipation
- General Purpose Medium Current
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant t ("P" Suffix Designates RoHS Compliant. See Ordering Information)

**Maximum Ratings**

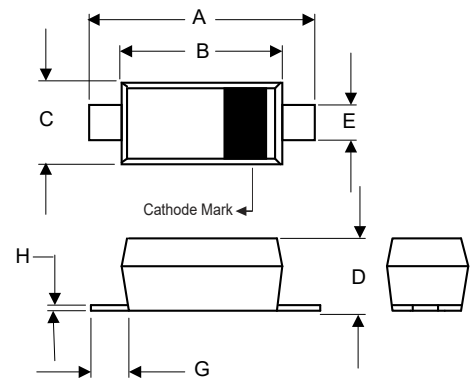
- Operating Junction Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$

| Parameter         | Symbol | Rating | Unit |
|-------------------|--------|--------|------|
| Power Dissipation | $P_D$  | 350    | mW   |

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

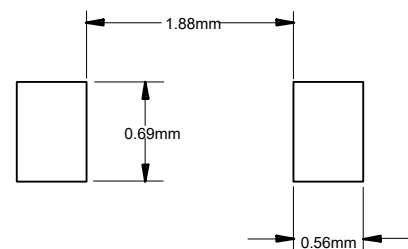
**350 mW  
Zener Diode  
5.1 Volts**

**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<br>Part Number | Nominal Zener Voltage |        |         | Maximum<br>Zener<br>Impedance |          | Maximum<br>Zener Impedance |          | Maximum<br>Reverse Current<br>$I_R(\text{Max}) @ V_R$ |       | Marking<br>Code |
|--------------------|-----------------------|--------|---------|-------------------------------|----------|----------------------------|----------|---|-------|-----------------|
|                    | $V_Z @ I_{ZT}$        |        |         | $Z_{ZT} @ I_{ZT}$             | $I_{ZT}$ | $Z_{ZK} @ I_{ZK}$          | $I_{ZK}$ | $I_R$   | $V_R$ |                 |
|                    | Min.(V)               | Nom(V) | Max.(V) | $\Omega$                      | mA       | $\Omega$                   | mA       | $\mu\text{A}$   | V     |                 |
| BZT52B5V1LS        | 5.0                   | 5.1    | 5.2     | 80                            | 5.0      | 500                        | 1.00     | 2.0   | 1.0   | 5V1 or 5.1      |

### Curve Characteristics

Fig. 1 - Power Derating Curve

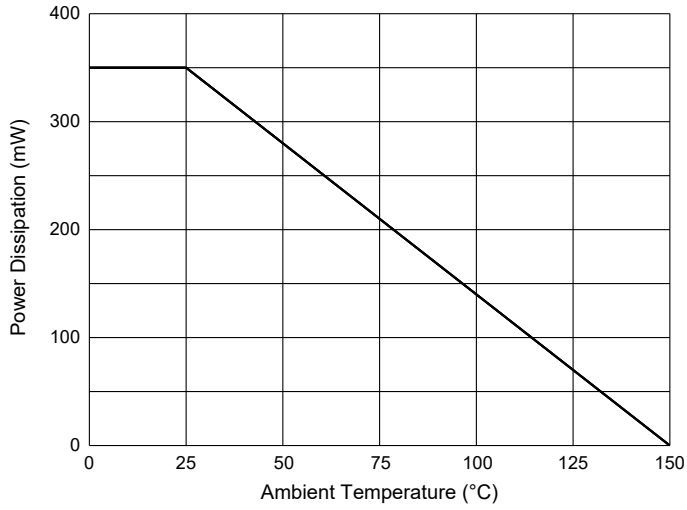
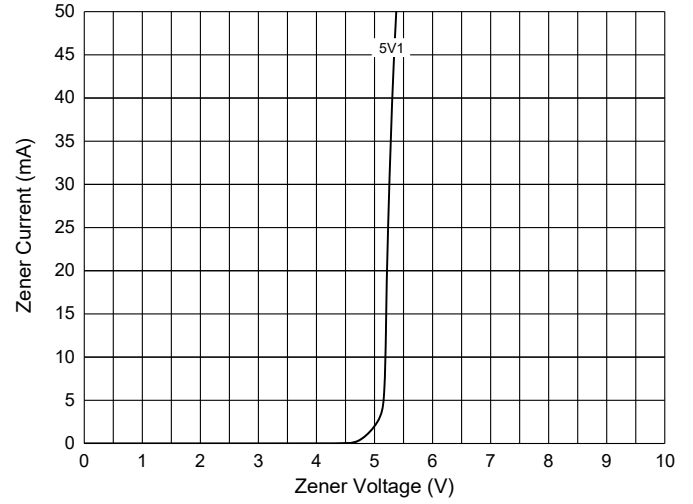


Fig. 2 - Typical Zener Breakdown Characteristics



## Ordering Information

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

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