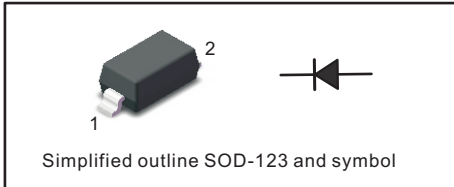


### PINNING

| PIN | DESCRIPTION |
|-----|-------------|
| 1   | Cathode     |
| 2   | Anode       |



### FEATURES

- Total power dissipation: Max. 500mW.
- Wide zener reverse voltage range 5.1V
- Small plastic package suitable for surface mounted design.
- Tolerance approximately  $\pm 5\%$

### MECHANICAL DATA

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg 0.00056oz

### Absolute Maximum Ratings And Characteristics ( Ta = 25 °C )

| Parameter   | Symbol          | Value      | Unit          |
|---|-----------------|------------|---------------|
| Power Dissipation   | $P_{tot}$       | 500        | mW            |
| Forward Voltage at $I_F = 10$ mA                              | $V_F$           | 0.9        | V             |
| Typical thermal resistance junction to ambient <sup>(1)</sup> | $R_{\theta JA}$ | 340        | $^{\circ}C/W$ |
| Operating and Storage Temperature Range                       | $T_j, T_{stg}$  | -55 ~ +150 | $^{\circ}C$   |

(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper areas pads.

Fig.1 Maximum Continuous Power Derating

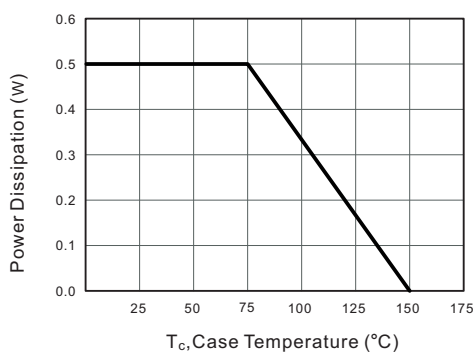
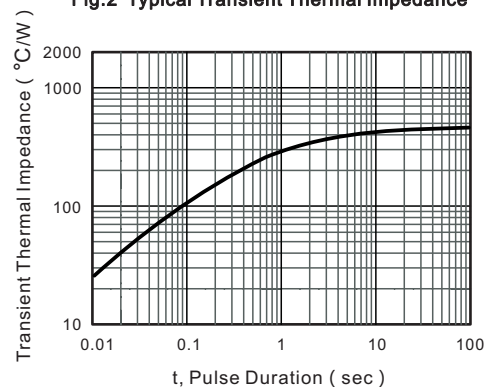


Fig.2 Typical Transient Thermal Impedance



### Characteristics at Ta = 25°C

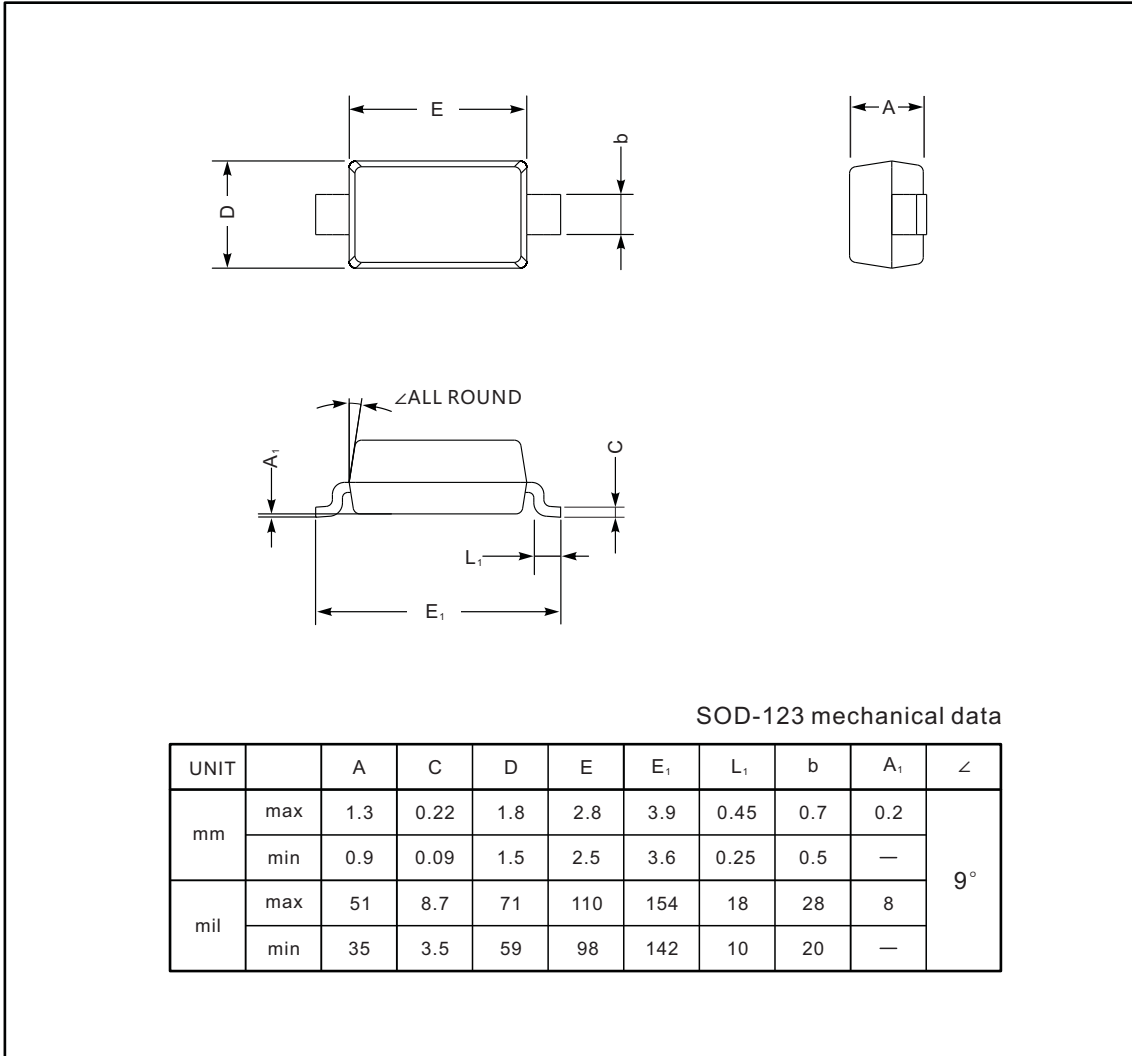
| Type      | Marking | Zener Voltage Range <sup>(1)</sup> |         |         | $I_{ZT}$<br>(mA) | Dynamic Impedance       | Reverse Current |          |
|-----------|---------|------------------------------------|---------|---------|------------------|-------------------------|-----------------|----------|
|           |         | $V_{ZT}$ (at $I_{ZT}$ )            |         |         |                  | $Z_{ZT}$ (at $I_{ZT}$ ) | $I_R$           | at $V_R$ |
|           |         | Min (V)                            | Nom (V) | Max (V) |                  | Max ( $\Omega$ )        | Max ( $\mu A$ ) | (V)      |
| MMSZ5231B | E1      | 4.8                                | 5.1     | 5.4     | 5                | 130                     | 2               | 1.5      |

(1)  $V_{ZT}$  is tested with pulses (20 ms)

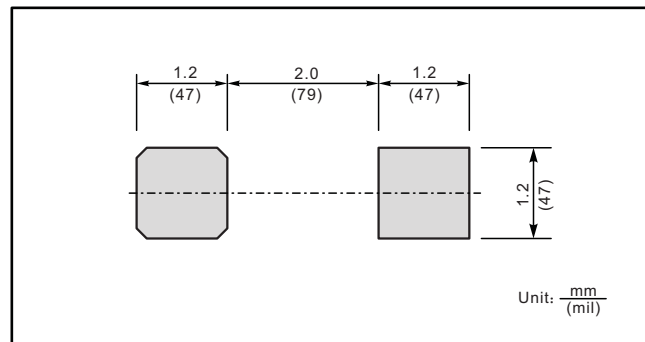
**PACKAGE OUTLINE**

Plastic surface mounted package; 2 leads

SOD-123



**The recommended mounting pad size**



单击下面可查看定价，库存，交付和生命周期等信息

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