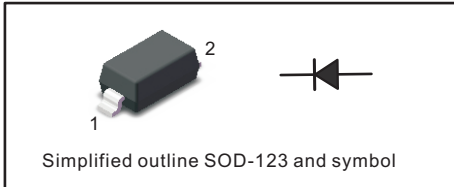


PINNING

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 ⁽¹⁾	$R_{\theta JA}$	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

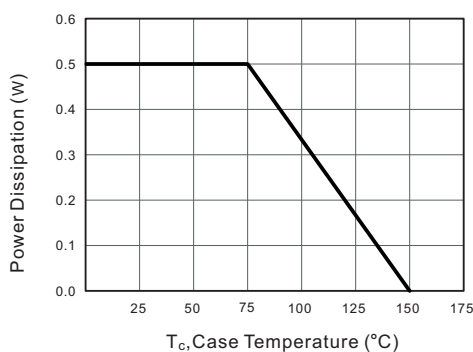
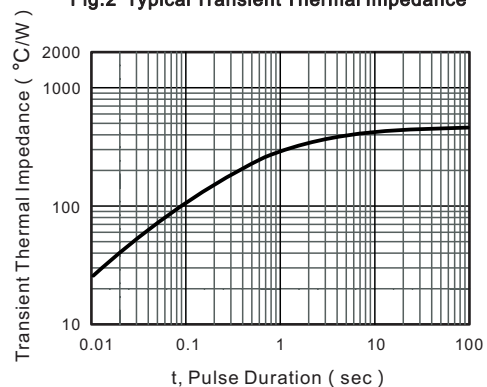


Fig.2 Typical Transient Thermal Impedance



Characteristics at Ta = 25°C

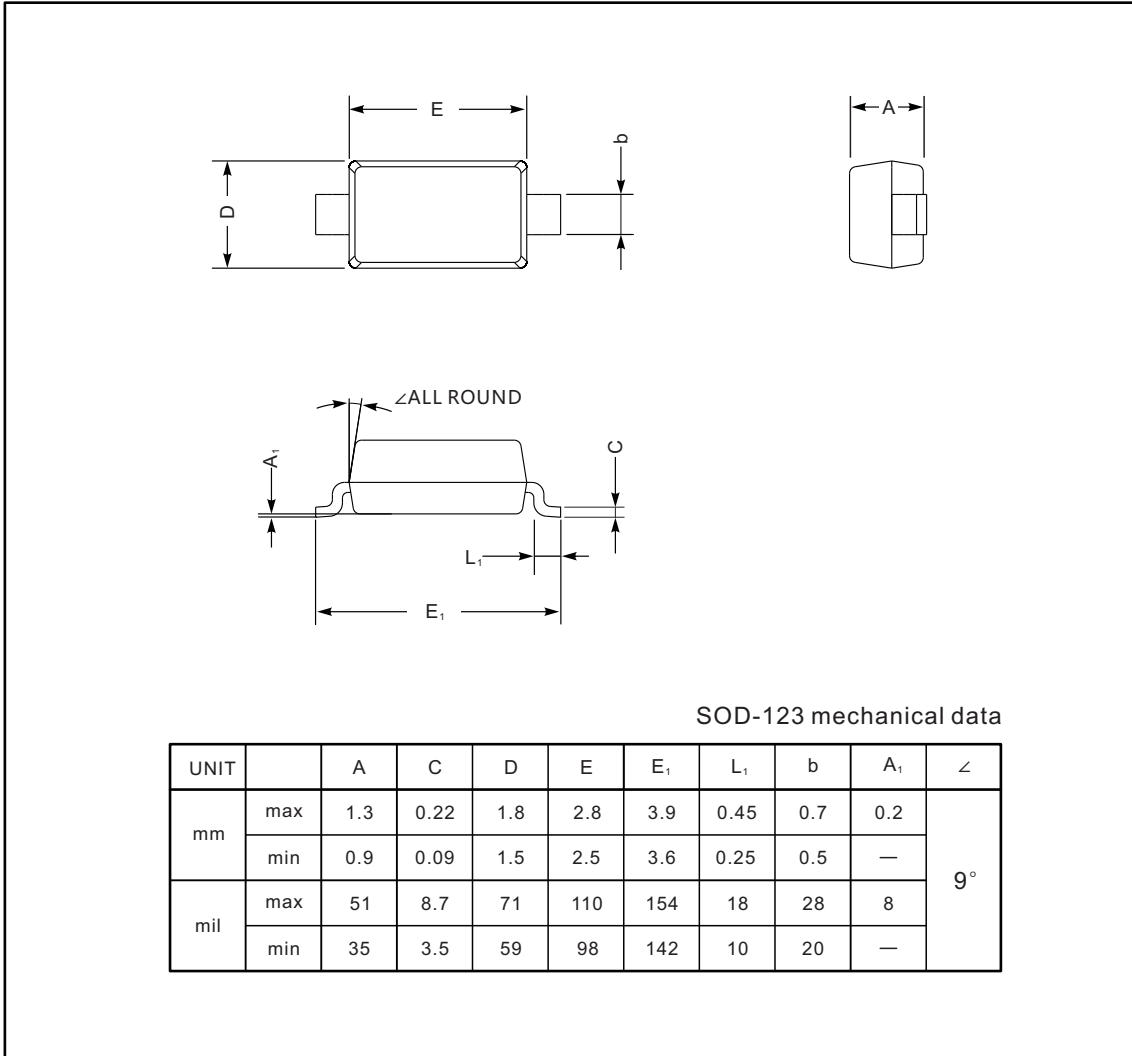
Type	Marking	Zener Voltage Range ⁽¹⁾				I_{ZT} (mA)	Dynamic Impedance	Reverse Current	
		V_{ZT} (at I_{ZT})			Z_{ZT} (at I_{ZT})		I_R	at V_R	
		Min (V)	Nom (V)	Max (V)	Max (Ω)		Max (μA)	(V)	
MMSZ5231B	E1	4.8	5.1	5.4	5	130	2	1.5	

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

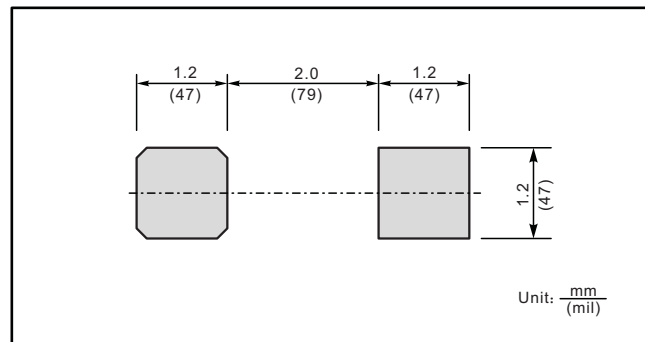
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



The recommended mounting pad size



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