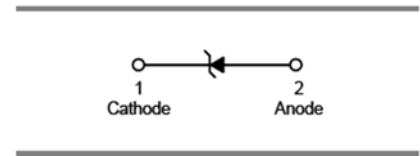


Surface Mount Zener Diode



SOD-123

Features:

- Planar Die Construction
- 500mW Power Dissipation
- General Purpose, Medium Current
- Ideally Suited For Automated Assembly Processes

Applications:

- Zener diode
- Ultra-small surface mount package

Maximum Rating @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ $I_F = 10\text{mA}$	V_F	0.9	V
Power dissipation	P_D	500	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	350	$^\circ\text{C}/\text{W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature range	T_{stg}	-65 to +150	$^\circ\text{C}$

Note : Device mounted on ceramic PCB; 7.6mm × 9.4mm × 0.87mm with pad areas 25mm².
Tested with pulses, $T_p \leq 1\text{ms}$.

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Type Number	Type Code	Zener Voltage Range			Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
		$V_z @ I_{ZT}$				I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK} = 0.25\text{mA}$	I_R
		Nom(V)	Min(V)	Max(V)	mA	Ω		μA	V
MMSZ5248B	J3	18	17.1	18.9	7	21	600	0.1	14



Surface Mount Zener Diode



Typical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

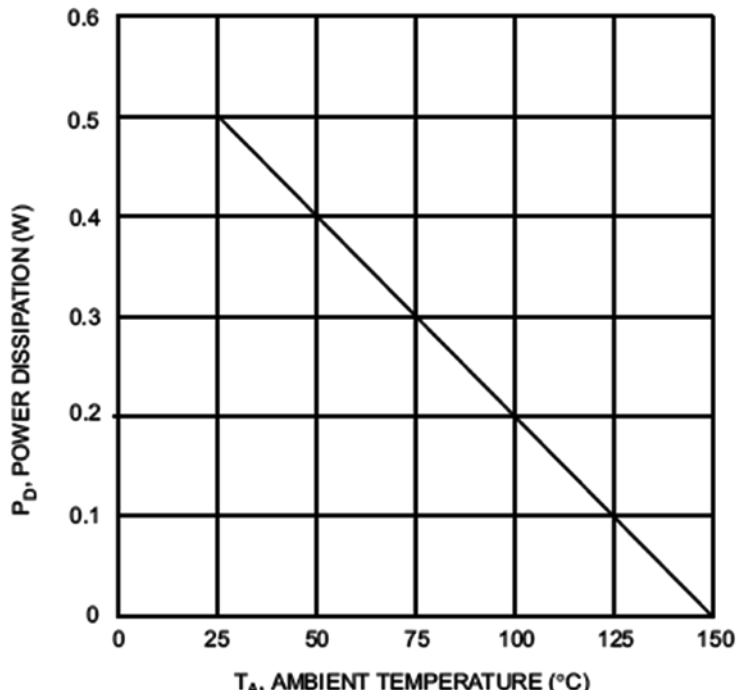
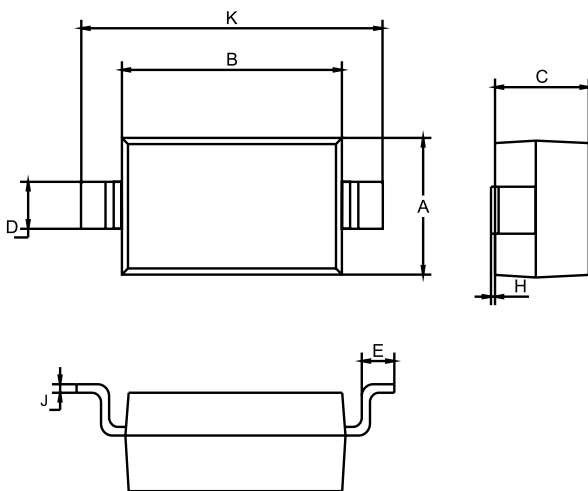


Fig. 1 Power Dissipation vs Ambient Temperature

Package Outline

Plastic surface mounted package



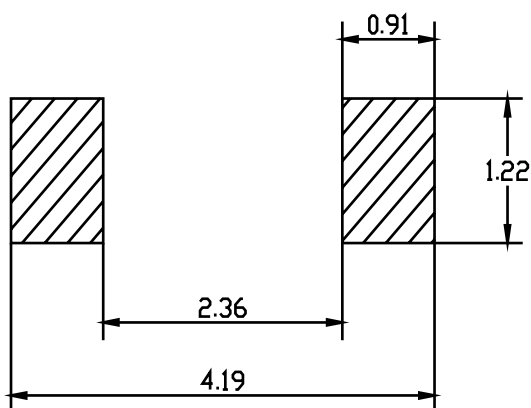
SOD-123		
Dim	Min	Max
A	1.4	1.8
B	2.55	2.85
C	1.15 Typical	
D	0.5	0.6
E	0.3	0.4
H	0.02	0.10
J	0.1 Typical	
K	3.55	3.85
All Dimensions in mm		



Surface Mount Zener Diode



Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
MMSZ5248B-7-F	SOD-123	3,000/Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Zener Diode	MMSZ5248B-7-F

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