Surface Mount Zener Diode





1 2 Cathode Anode

Features:

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



SOD-123

Applications:

- Zener diode
- · Ultra-small surface mount package

Maximum Rating @ TA = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Forward voltage @ I _F =10mA	V _F	0.9	V
Power dissipation	P _d	500	mW
Thermal resistance, junction to ambient air	$R_{ heta jA}$	350	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

Note : Device mounted on ceramic PCB; 7.6mm \times 9.4mm \times 0.87mm with pad areas 25mm². Tested with pulses, Tp \leq 1ms.

Electrical Characteristics @ TA = 25°C unless otherwise specified

	Zener		Voltage Range		Test Current	Maximum Zener Impedance		Maximum Reverse Leakage Current	
Type Number	Type Code		V _z @I _{ZT}		I _{ZT}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK} = 0.25mA	I _R	@V _R
		Nom(V)	Min(V)	Max(V)	mA		Ω	μΑ	V
MMSZ5242B	H2	12	11.4	12.6	20	30	600	1	9.1

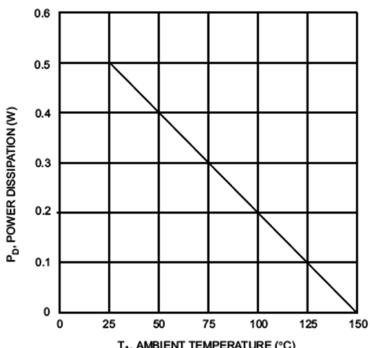
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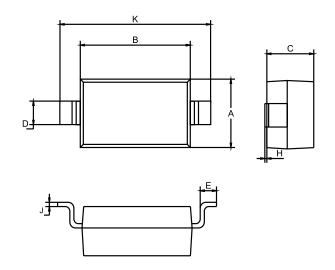
Typical Characteristics @ T_A = 25°C unless otherwise specified



T_A, AMBIENT TEMPERATURE (°C) Fig. 1 Power Dissipation vs Ambient Temperature

Package Outline

Plastic surface mounted package



SOD-123			
Dim	Min	Max	
А	1.4	1.8	
В	2.55	2.85	
С	1.15 Typical		
D	0.5	0.6	
E	0.3	0.4	
Н	0.02	0.10	
J	0.1 Typical		
К	3.55	3.85	
All Dimensions in mm			

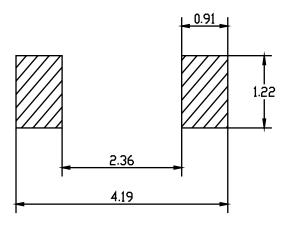
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Surface Mount Zener Diode



Soldering Footprint



Dimensions: Millimetres

Package Information

Device	Package	Shipping
MMSZ5242B-7-F	SOD-123	3,000/Tape & Reel

Part Number Table

Description	Part Number	
Surface Mount Zener Diode	MMSZ5242B-7-F	

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