Surface Mount Zener Diode

Cathode



Features:

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



0 2

Anode

SOD-123

Applications:

- Zener diode
- Ultra-small surface mount package

Maximum Rating @ T_A = 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 _{θjA}	305	°C/W
Junction temperature	Т _ј	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

Note : Device mounted on ceramic PCB; 7.6mm × 9.4mm × 0.87mm with pad areas 25mm²

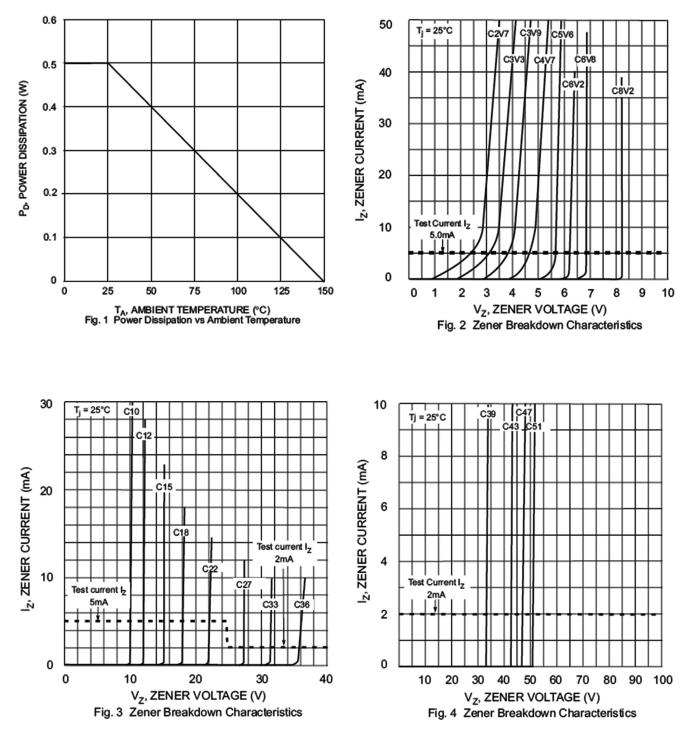
Short duration test pulse used to minimize self-heating effect.

When provided, otherwise, parts are provided with date code only, and type number identifications appears on reel only. f = 1 kHz

Electrical Characteristics @ T_A = 25°C unless otherwise specified

_		Zener Voltage Range			Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature Coefficient@		Test Current	
Type Number	Marking Code		V _z @I _{zt}		I _{zt}	Z _{zt} @I _{zt}	Z _{zĸ} @I _{zĸ}	I _{zk}	I _R	@V _R	I _{ztc} n	nV/°C	Iztc
		Nom(V)	Min(V)	Max(V)	mA	S	2	mA	μA	v	Min	Max	mA
BZT52C18	WL	18	16.8	19.1	5	45	225	1	0.1	12.6	12.4	16	5



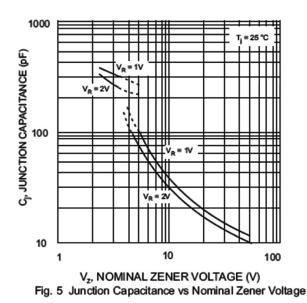


Typical Characteristics @ TA = 25°C unless otherwise specified



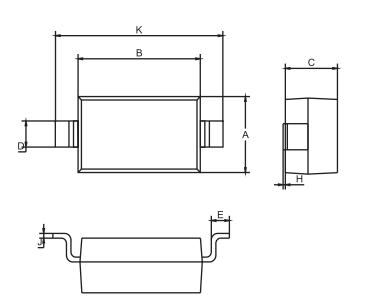
Surface Mount Zener Diode

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Package Outline

Plastic surface mounted package

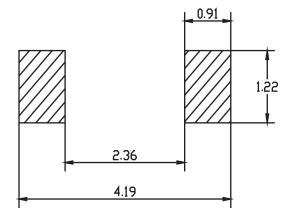


SOD-123				
Dim	Min	Max		
А	1.4	1.8		
В	2.55	2.85		
С	1.15 Typical			
D	0.5	0.6		
E	0.3	0.4		
Н	0.02	0.10		
J	0.1 Typical			
К	3.55	3.85		
All Dimensions in mm				



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Soldering Footprint



Package Information

Device	Package	Shipping
BZT52C18-7-F	SOD-123	3,000/Tape & Reel

Dimensions : Millimetres

Part Number Table

Description	Part Number		
Surface Mount Zener Diode	BZT52C18-7-F		

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