

Features:

- · Planar Die Construction
- 500mW Power Dissipation On Ceramic PCB
- · 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	$R_{\theta jA}$	305	°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 × 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 = 1kHz

Electrical Characteristics @ TA = 25°C unless otherwise specified

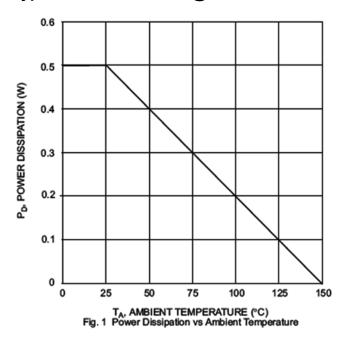
Zener Voltage Range						Maximum Zener Impedance			Maximum Reverse Current		Typical Temperature Coefficient@		Test Current
Type Number	Marking Code		V _z @I _{zt}		I _{zt}	Z _{zt} @I _{zt}	Z _{zK} @I _{zK}	l _{zk}	I _R	@V _R	I _{ztc} n	nV/°C	I _{ztc}
		Nom(V)	Min(V)	Max(V)	mA	2	Ω	mA	μΑ	٧	Min	Max	mA
BZT52C43	WU	43	40	46	5	100	700	1	0.1	32	10	12	5

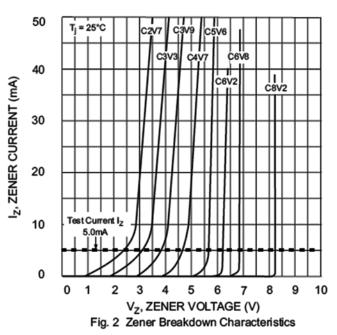
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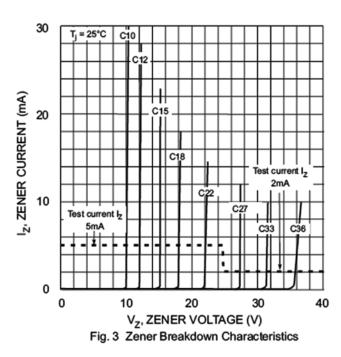


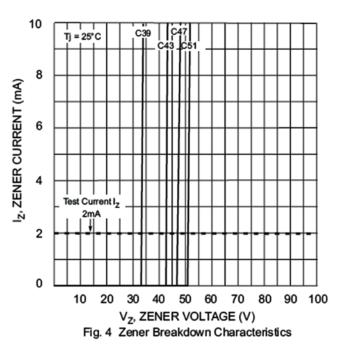


Typical Characteristics @ TA = 25°C unless otherwise specified











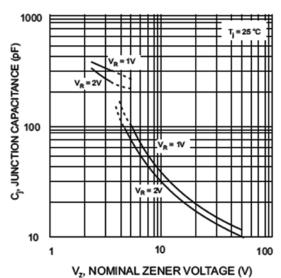
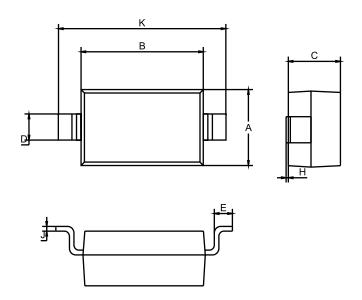


Fig. 5 Junction Capacitance vs Nominal Zener Voltage

Package Outline

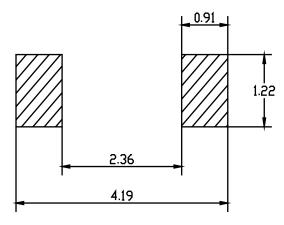
Plastic surface mounted package



SOD-123				
Dim	Min	Max		
Α	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			
K	3.55	3.85		
All Dimensions in mm				



Soldering Footprint



Dimensions: Millimetres

Package Information

Device	Package	Shipping		
BZT52C43-7-F	SOD-123	3,000/Tape & Reel		

Part Number Table

Description	Part Number			
Surface Mount Zener Diode	BZT52C43-7-F			

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