



Ultra-small surface mount package

Applications:

Zener diode

Features:

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

0 1 2 Cathode Anode



SOD-123

Max. Rating @ T_A = 25°C unless otherwise specified

Parame	Symbol	Limits	Unit	
Forward voltage	@ I⊧ = 10mA	VF	0.9	V
Power dissipation		Po	500	mW
Thermal resistance junction to a	R _{θJA}	305	°C/W	
Operating junction temperature range		Тј	150	°C
Storage temperature range		Тѕтс	-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

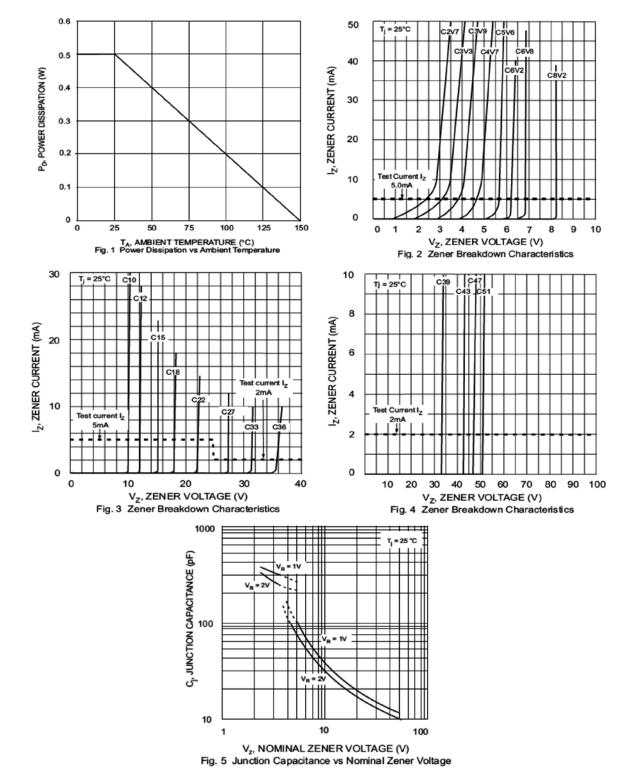
Electrical Characteristics @ T_A = 25°C unless otherwise specified

Marking	Zener Voltage Range			Max. Zener Impedance		Max. Reverse Current		Typical Temperature		Test Current		
Code		Vz @ Izt		lzт	Zzt@Izt	Zzĸ@lzĸ	lzк	lr	Vr	Coefficient@ Iztc mV/°C		Ітс
	Nom(V)	Min(V)	Max(V)	mA	9	Ω	mA	μA	V	Min.	Max.	mA
WI	13	12.4	14.1	5	30	170	1	0.1	8	7	11	5

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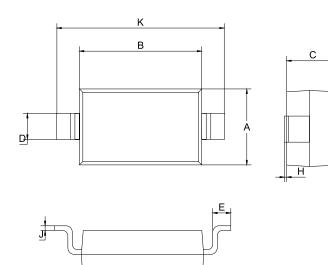
Typical Characteristics @ TA = 25°C unless otherwise specified

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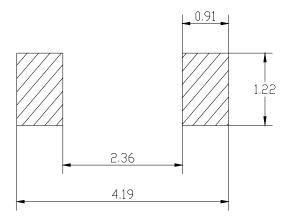


Plastic surface mounted package



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				

Soldering Footprint



Unit : mm

Package Information

Device	Package	Shipping
BZT52C13-7-F	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number		
Surface mount zener diode	BZT52C13-7-F		

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