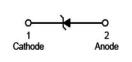
Surface Mount Zener Diode





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

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

Parameter	Symbol	Limits	Unit	
Forward voltage	D) IF = 10mA	VF	0.9	V
Power dissipation		PD	500	mW
Thermal resistance junction to ambient air		R _{θJA}	305	°C/W
Operating junction temperature range		Тј	150	°C
Storage temperature range		Тѕтс	-65 to +150	°C

 $\textbf{Note}: \text{Device mounted on ceramic PCB; 7.6mm} \times 9.4 \text{mm} \times 0.87 \text{mm with pad areas } 25 \text{mm}^2$

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

Marking	Zer	ner Voltag	je Range	ange Max. Zener Impedance				Max. Reverse Current		Typical Temperature		Test Current
Code		Vz @ Izт		lzт	Z zт@ I zт	Zzk@lzk	Izĸ	lR	@V R	Coefficient@ Izτc mV/°C		Ігтс
	Nom(V)	Min(V)	Max(V)	mA	9	Ω	mA	μΑ	V	Min.	Max.	mA
WF	10	9.4	10.6	5	20	150	1	0.2	7	4.5	8	5

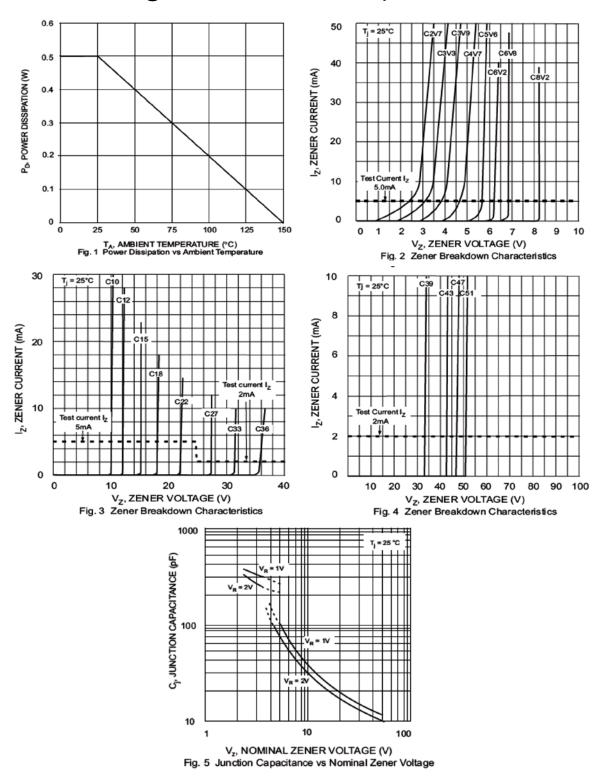




Surface Mount Zener Diode



Typical Characteristics @ TA = 25°C unless otherwise specified



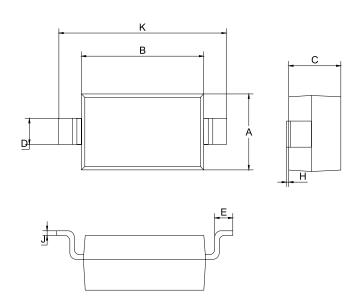
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Surface Mount Zener Diode

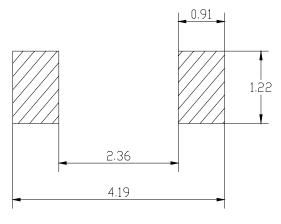


Plastic surface mounted package



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



Package Information

Device	Package	Shipping
BZT52C10-7-F	SOD-123	3,000 / Tape & Reel

Unit: mm

Part Number Table

Description	Part Number		
Surface mount zener diode	BZT52C10-7-F		

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