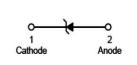
Surface Mount Zener Diode





Features:

- Planar Die Construction
- · General Purpose, Medium Current
- Ideally Suited For Automated Assembly Processes





SOD-323

Applications:

Zener diode
Ultra-small surface mount package

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

Param	Symbol	Limits	Unit	
Forward voltage	@ I _F = 10mA	VF	0.9	V
Power dissipation		PD	200	mW
Thermal resistance junction to	$R_{ heta JA}$	625	°C/W	
Operating junction temperature range		Тј	150	°C
Storage temperature range	Тѕтс	-65 to +150	°C	

Notes: Valid provided that device terminals are kept at ambient temperature Short duration test pulse used in minimize self-heating effect f = 1kHz

Electrical Characteristics @ TA = 25°C unless otherwise specified

Maukina	Zener Voltage Range			Max. Zener Impedance		Max. Reverse Current		Typical Temperature			
Marking Code	Vz @ Izτ Iz		lzт	Z zт@ I zт	Zzk@lzk	lzк	lR	@VR		cient@ nV/°C	
	Nom(V)	Min(V)	Max(V)	mA	9	Ω	mA	μΑ	٧	Min.	Max.
WH	12	11.4	12.7	5	25	150	1	0.1	8	6	10

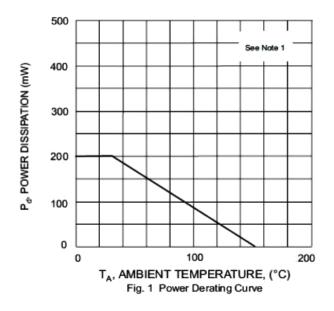
Note : Valid provided that device terminals are kept at ambient temperature
Tested with pulses, period = 5ms, pulse width = 300μs
f = 1kHz

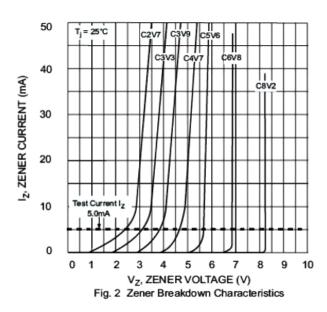


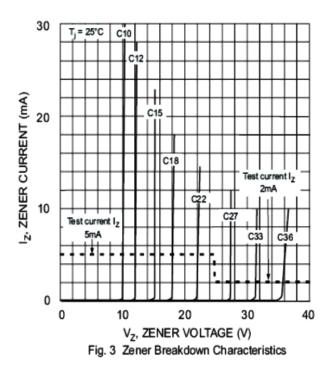
Surface Mount Zener Diode

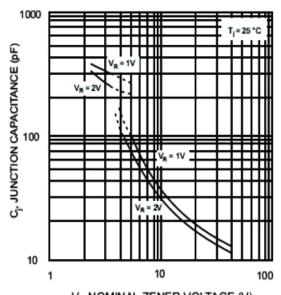


Typical Characteristics @ TA = 25°C unless otherwise specified







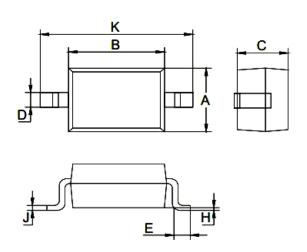


V₂, NOMINAL ZENER VOLTAGE (V) Fig. 4 Junction Capacitance vs Nominal Zener Voltage

Surface Mount Zener Diode

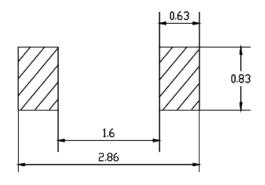


Plastic surface mounted package



SOD-323				
Dim	Min	Max		
A	1.275	1.325		
В	1.675	1.725		
С	0.9 Typical			
D	0.25	0.35		
E	0.27	0.37		
н	0.02	0.1		
J	0.1 Typical			
K	2.6	2.7		
All Dimensions in mm				

Soldering Footprint



Unit: mm

Package Information

Device	Package	Shipping	
BZT52C12S-7-F	SOD-323	3,000 / Tape & Reel	

Part Number Table

Description	Part Number	
Surface mount zener diode	BZT52C12S-7-F	

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