



SOD-323

Features:

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

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	200	mW
Thermal resistance, junction to ambient air	R _{θjA}	625	°C/W
Junction temperature	T _j	150	°C
Storage temperature range	T _{stg}	-65 to +150	°C

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





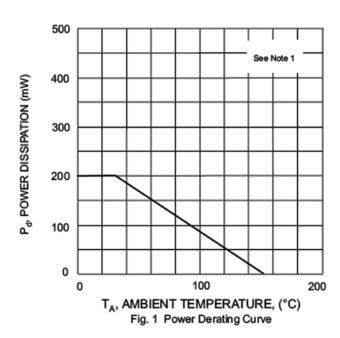
Electrical Characteristics @ TA = 25°C unless otherwise specified

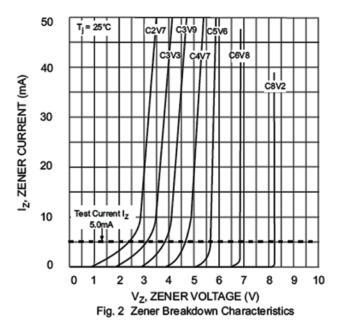
_	<u>.</u>	Zener Voltage Range		Maximum Zener Impedance		Maximum Reverse Current		Typical Temperature Coefficient@				
Type Number	Marking Code		V _z @I _{zt}		l _{zt}	Z _{zT} @I _{zT}	Z _{zk} @l _{zk}	l _{zk}	I _R	@V _R	I _{ztc} m	iV/°C
		Nom(V)	Min(V)	Max(V)	mA	Ω	Ω	mA	μΑ	٧	Min	Max
BZT52C18S	WL	18	16.8	19.1	5	45	225	1	0.1	12.6	12.4	16

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

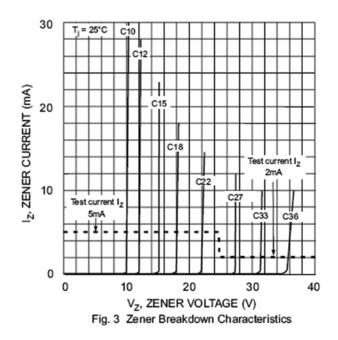
f = 1kHz.

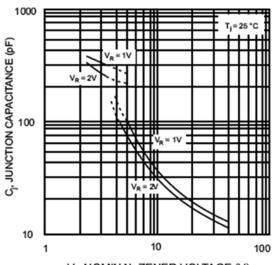
Typical Characteristics @ TA = 25°C unless otherwise specified







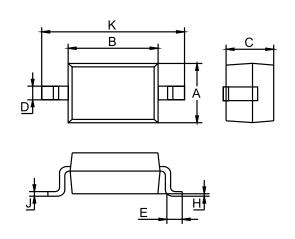




V₂, NOMINAL ZENER VOLTAGE (V) Fig. 4 Junction Capacitance vs Nominal Zener Voltage

Package Outline

Plastic surface mounted package

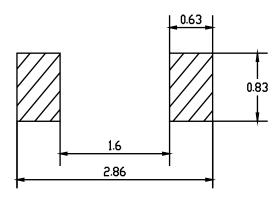


SOD-323				
Dim	Min	Max		
Α	1.275	1.325		
В	1.675	1.725		
С	0.9 Typical			
D	0.25	0.35		
E	0.27	0.37		
Н	0.02	0.1		
J	0.1 Typical			
К	2.6	2.7		
All Dimensions in mm				





Soldering Footprint



Dimensions: Millimetres

Package Information

Device	Package	Shipping
BZT52C18S-7-F	SOD-323	3,000/Tape & Reel

Part Number Table

Description	Part Number		
Surface Mount Zener Diode	BZT52C18S-7-F		

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