

Features

Planar die construction.

200mW power dissipation on ceramic PBC.

General purpose, medium current.

Ideally suited for automated assembly processes.

Available in lead free version.



SOD-323

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)		
BZT52C18S-7-F	SOD-323	WL	3000		



Absolute Maximum Ratings(Ta=25℃)

Symbol	Parameter	Value	Unit
V _F	Forward Voltage (Note 2) @ I _F =10mA	0.9	V
Pd	Power Dissipationn (Note 1)	200	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
TJ	Operation Junction Temperature Range	-40~+125	$^{\circ}$
T _{STG}	Storage Temperature Range	-55~+150	${\mathbb C}$

Electrical Characteristics (Ta=25°C unless otherwise specified)

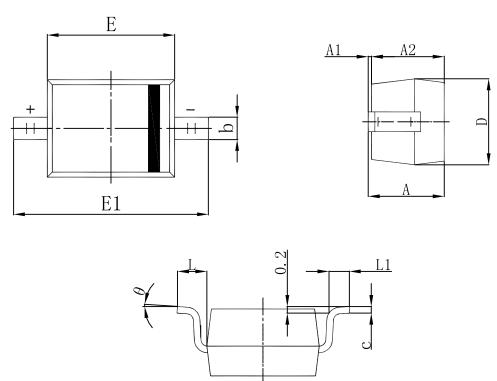
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Туре	Zener Voltage Range (Note 2)			Maximum Zener Impedance (Note 3)		Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I _{ZTC} mV/°C		Test Current		
	V _Z @I _{ZT} (V) I _Z		I _{ZT}	Vz@lzt	Vz@Izĸ	I _{ZK}	I _R	V_R	@IZTC	mv/ C		
	Nom	Min	Max	(mA)	Ω		(mA)	μA	V	Min	Max	mA
BZT52C18S-7-F	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16	5

Notes

- 1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm².
- 2. Short duration test pulse used to minimize self-heating effect.
- 3. f = 1kHz.



Package Outline Dimensions SOD-323



Symbol	Dimensions	In Millimeters	Dimensions In Inches			
	Min	Max	Min	Max		
Α		1.100		0.043		
A1	0.000	0.100	0.000	0.004		
A2	0.800	1.000	0.031	0.039		
b	0.250	0.350	0.010	0.014		
С	0.080	0.150	0.003	0.006		
D	1.200	1.400	0.047	0.055		
E	1.600	1.800	0.063	0.071		
E1	2.500	2.750	0.098	0.108		
L	0.475	REF	0.019 REF			
L1	0.250	0.400	0.010	0.016		
θ	0°	8°	0°	8°		



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