



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)
BZT52C18SQ-7-F	SOD-323	WL	3000



Absolute Maximum Ratings(Ta=25°C)

Symbol	Parameter	Value	Unit
V _F	Forward Voltage (Note 2) @ I _F =10mA	0.9	V
P _d	Power Dissipation (Note 1)	200	mW
R _{ΘJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J	Operation Junction Temperature Range	-40~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

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

Type	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I _{ZTC} mV/°C		Test Current I _{ZTC}
	V _Z @I _{ZT} (V)			I _{ZT}	V _Z @I _{ZT}	V _Z @I _{ZK}	I _{ZK}	I _R	V _R			
	Nom	Min	Max	(mA)	Ω		(mA)	μA	V	Min	Max	mA
BZT52C18SQ-7-F	18	16.8	19.1	5	45	225	1.0	0.1	12.6	12.4	16	5

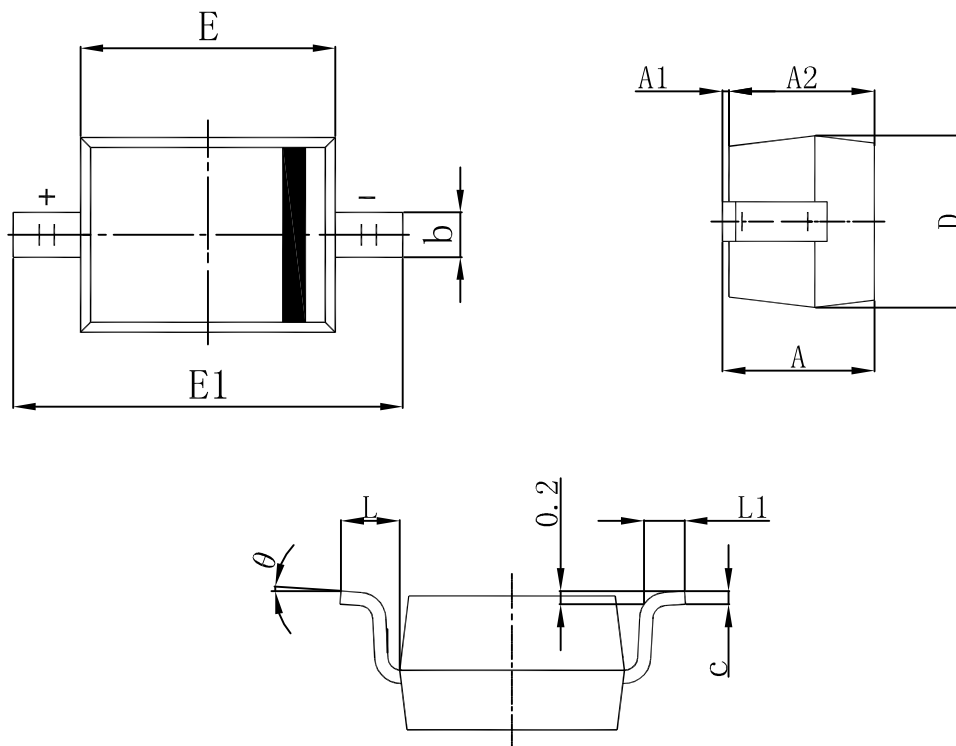
Notes:

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
A		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
c	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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