BZT52C4V7SQ-7-F

Plastic-Encapsulate Zener Diodes

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)
BZT52C4V7SQ-7-F	SOD-323	W7	3000

Absolute Maximum Ratings(Ta=25℃)

Symbol	Parameter	Value	Unit
V_F	Forward Voltage (Note 2) @ I_F=10mA	0.9	V
P_d	Power Dissipationn (Note 1)	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	℃/W
T_J	Operation Junction Temperature Range	-40~+125	℃
T_{STG}	Storage Temperature Range	-55~+150	℃

Electrical Characteristics (Ta=25℃ unless otherwise specified)

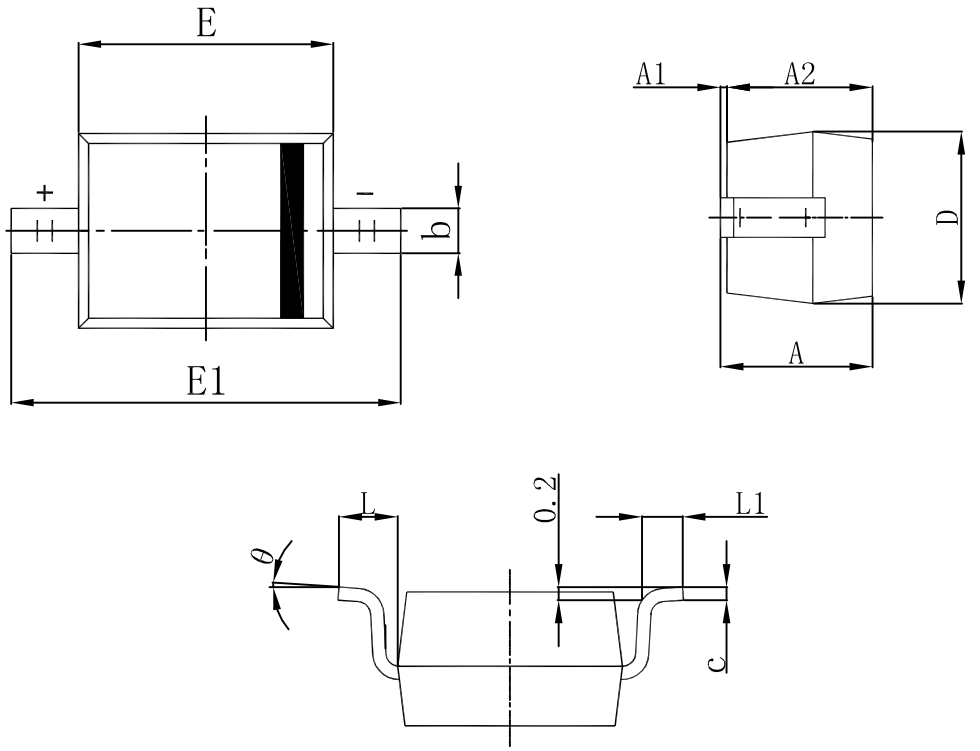
Type	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I_{ZTC} mV/°C		Test Current I_{ZTC}
	V_Z @I_{ZT} (V)			I_{ZT}	V_Z @I_{ZT}	V_Z @I_{ZK}	I_{ZK}	I_R	V_R			
	Nom	Min	Max	(mA)	Ω		(mA)	μA	V	Min	Max	mA
BZT52C4V7SQ-7-F	4.4	4.7	5.0	5	80	500	1.0	3	2	-3.5	0.2	5

Notes:

1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm^2.
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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