



## 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)
HBZT52C12S7F	SOD-323	WH	3000



## Absolute Maximum Ratings(Ta=25°C)

Symbol	Parameter	Value	Unit
V <sub>F</sub>	Forward Voltage (Note 2) @ I <sub>F</sub> =10mA	0.9	V
P <sub>d</sub>	Power Dissipation (Note 1)	200	mW
R <sub>ΘJA</sub>	Thermal Resistance From Junction To Ambient	625	°C/W
T <sub>J</sub>	Operation Junction Temperature Range	-40~+125	°C
T <sub>STG</sub>	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 <sub>ZTC</sub> mV/°C		Test Current I <sub>ZTC</sub>
	V <sub>Z</sub> @I <sub>ZT</sub> (V)			I <sub>ZT</sub>	V <sub>Z</sub> @I <sub>ZT</sub>	V <sub>Z</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>			
	Nom	Min	Max	(mA)	Ω		(mA)	μA	V	Min	Max	mA
HBZT52C12S7F	12	11.4	12.7	5	150	25	1.0	0.1	8	6	10	5

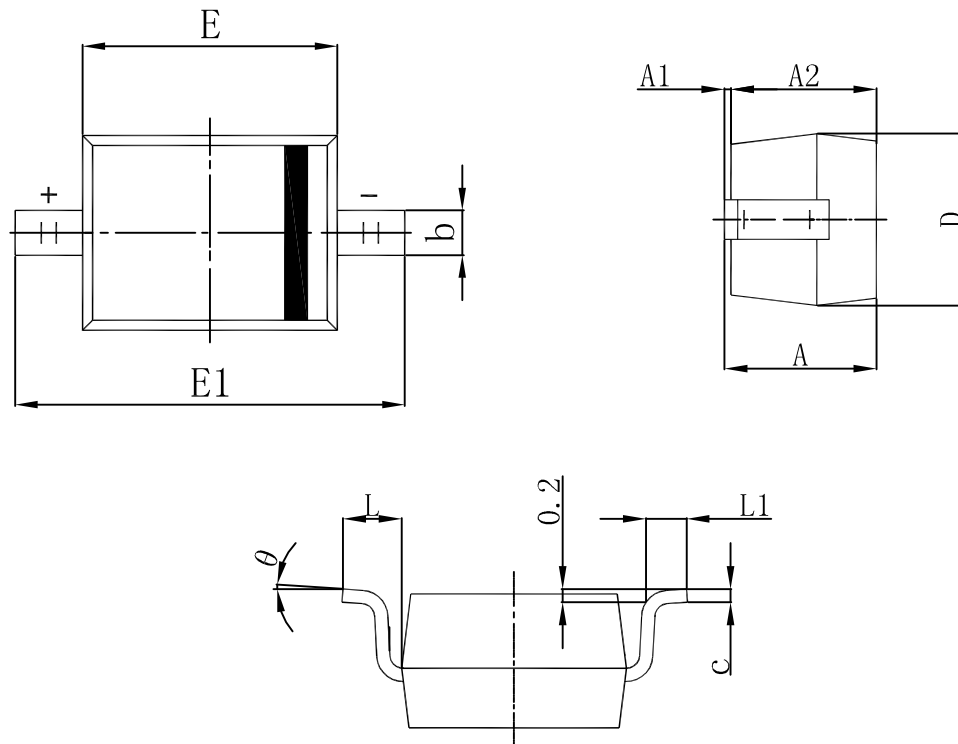
Notes:

1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm<sup>2</sup>.
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
$\theta$	0°	8°	0°	8°



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