

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-123

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)		
BZT52-C20X	SOD-123	WM	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)	500	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	625	°C/W
TJ	Operation Junction Temperature Range	-40~+125	${\mathbb C}$
T _{STG}	Storage Temperature Range	-55~+150	$^{\circ}$

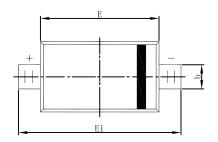
Electrical Characteristics (Ta=25℃ unless otherwise specified)

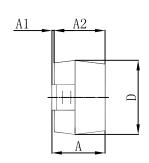
Zener Voltage Range (Note 2)					Maximum Zener Impedance (Note 3)		Maximum Reverse Current (Note 2)		Typical Temperature Coefficient		Jaro	
	V	z@lzt	(V)	I _{ZT}	Vz@IzT	Vz@Izĸ	I _{ZK}	I _R	V_{R}	@I _{ZTC} mV/°C		
	Nom Min Max (mA)		Ω (mA)		μΑ	V	Min	Max	mA			
BZT52-C20X	20	19	21	5	19	52.2	1.0	0.04	14	14.4	18	5

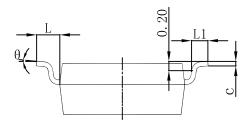
Notes:

- 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.

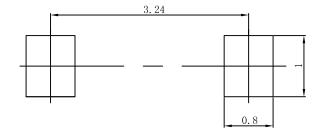
Package Outline Dimensions SOD-123







Symbol	Dimensions	In Millimeters	Dimensions In Inches			
	Min	Max	Min	Max		
Α	1.050	1.250	0.041	0.049		
A1	0.000	0.100	0.000	0.004		
A2	1.050	1.150	0.041	0.045		
b	0.450	0.650	0.018	0.026		
С	0.080	0.150	0.003	0.006		
D	1.500	1.700	0.059	0.067		
Е	2.600	2.800	0.102	0.110		
E1	3.550	3.850	0.140	0.152		
L	0.500	REF	0.020 REF			
L1	0.250	0.450	0.010	0.018		
θ	0°	8°	0°	8°		



Note:

- 1. Controlling dimension:in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



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