



Features

Planar die construction.

500mW 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-B4V7X	SOD-123	XX	3000

XX=Device code, see table on page2 the marking code.

The marking bar indicates the cathode.



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	500	mW
$R_{\theta JA}$	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

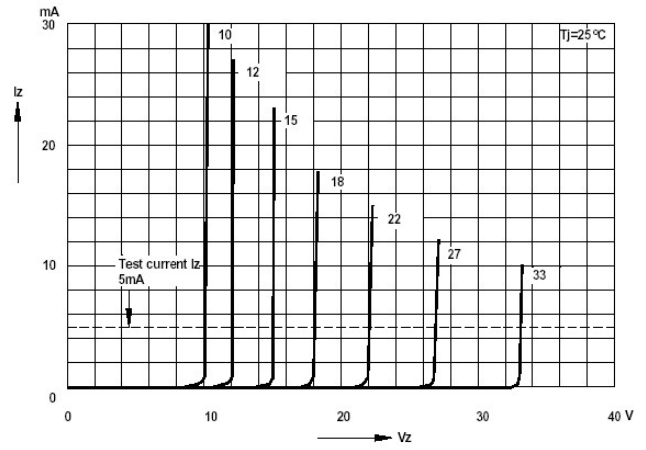
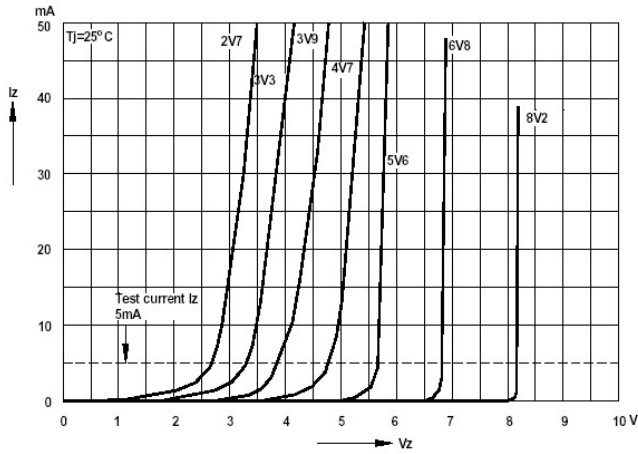
Electrical Characteristics (Ta=25°C unless otherwise specified)

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} (mA)	I _R	V _R	@I _{ZTC} mV/°C		
	Nom	Min	Max	(mA)	Ω			μA	V			Min
BZT52-B4V7X	4.7	4.61	4.79	5	80	500	1.0	3	2.0	-3.5	0.2	5

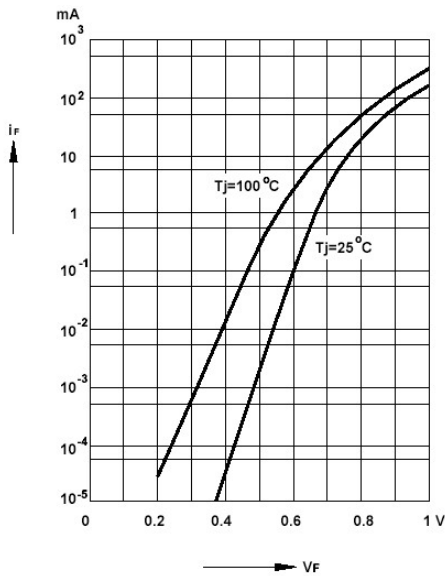


Typical Characteristics

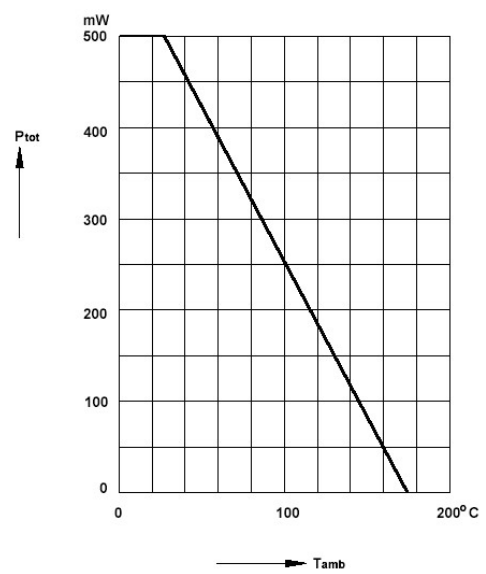
Breakdown characteristics
at $T_J = \text{constant}$ (pulsed)



Forward characteristics

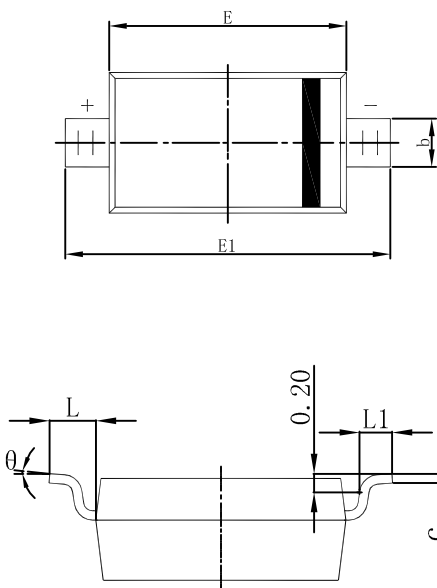


Admissible power dissipation versus ambient temperature

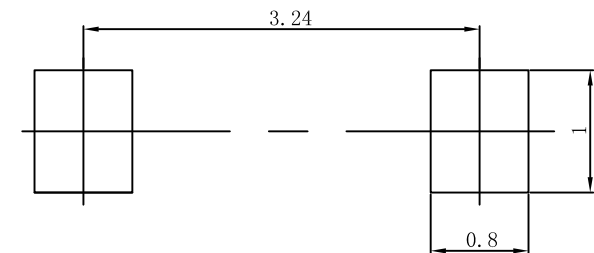




Package Outline Dimensions
SOD-123



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	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
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	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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