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)
BZT52C36-7-F	SOD-123	WS	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 Dissipationn (Note 1)	500	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	250	°C/W
T_{STG}	Storage Temperature Range	-55~+150	°C

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

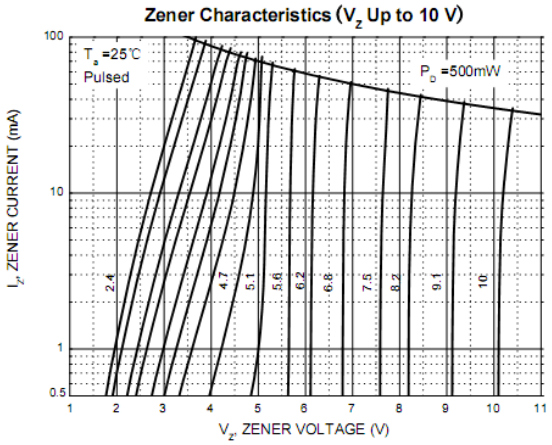
Type	Zener Voltage Range (Note 2)				Maximum Zener Impedance (Note 3)			Maximum Reverse Current (Note 2)		Typical Temperature Coefficient @I_{ZTC} mV/°C		Test Current I_{ZTC}
	V_Z @I_{ZT} (V)			I_{ZT}	V_Z @I_{ZT}	V_Z @I_{ZK}	I_{ZK}	I_R	V_R			
	Nom	Min	Max	(mA)	Ω		(mA)	μA	V	Min	Max	mA
BZT52C36-7-F	36	34.0	38.0	2	90	350	0.5	0.1	25.2	30.4	37.4	2

Notes:

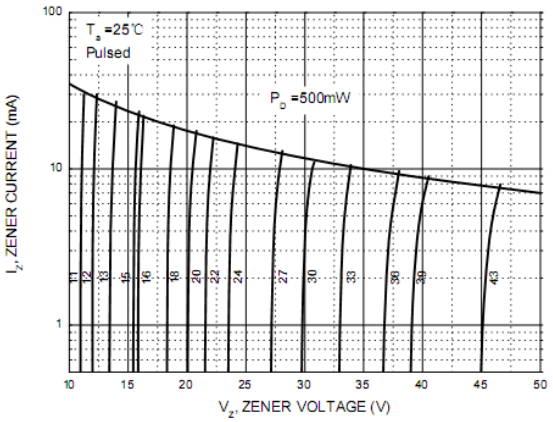
1. Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm^2.
2. Short duration test pulse used to minimize self-heating effect.
3. f = 1kHz.

Typical Characteristics

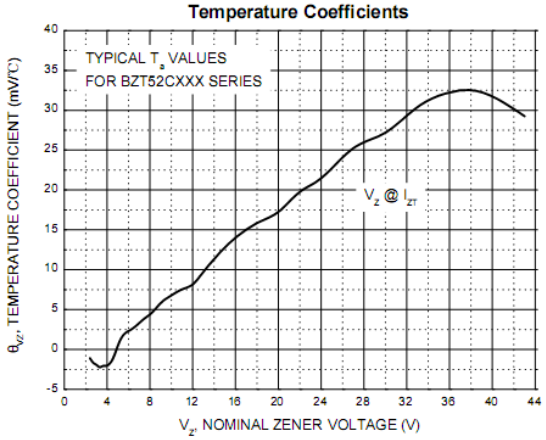
Zener Characteristics (V_Z Up to 10 V)



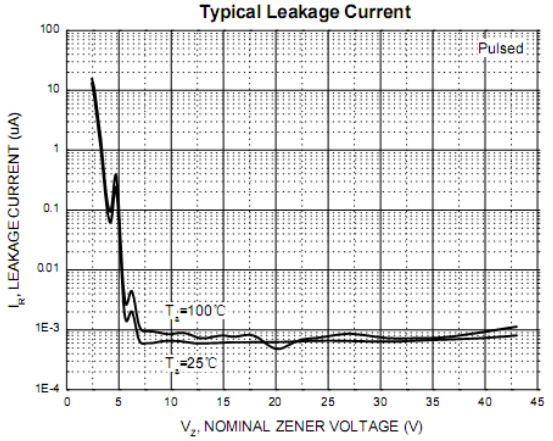
Zener Characteristics (11 V to 43 V)



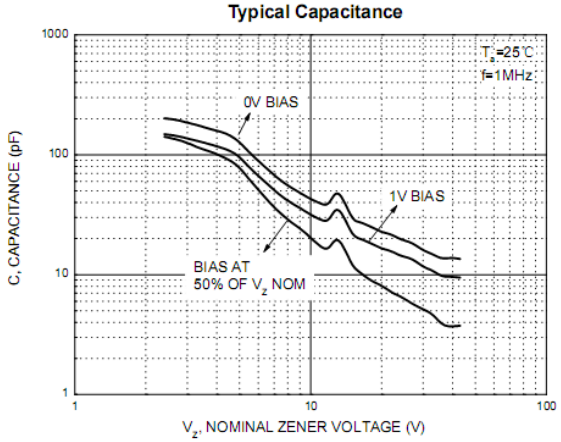
Temperature Coefficients



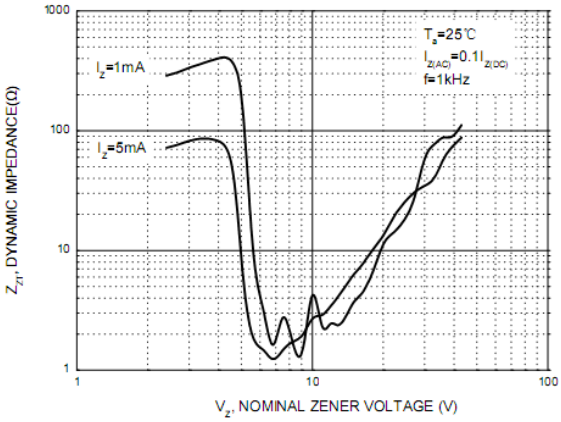
Typical Leakage Current



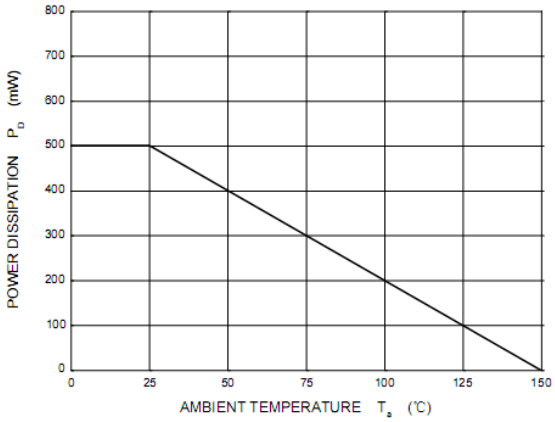
Typical Capacitance



Effect of Zener Voltage on Zener Impedance

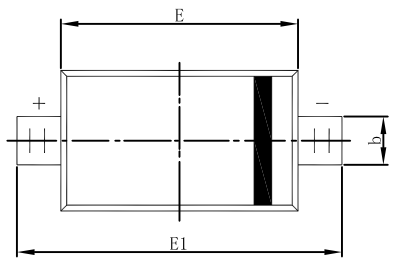


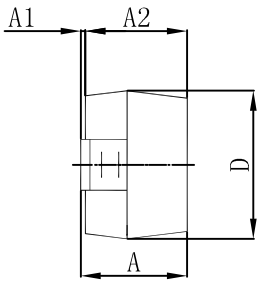
Power Derating Curve

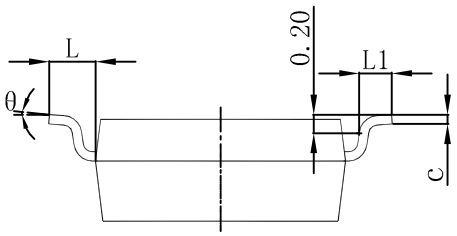


Package Outline Dimensions

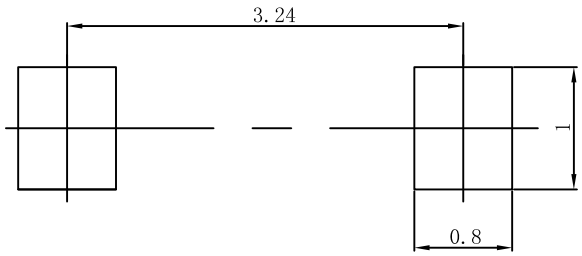
SOD-123







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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