



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
(SOD-323S)



Package Marking and Ordering Information

Product ID	Pack	Brand	Qty(PCS)
BZT52C5V1S-7-F	SOD-323 (SOD-323S)	HXY MOSFET	3000

Absolute Maximum Ratings(Ta=25°C)

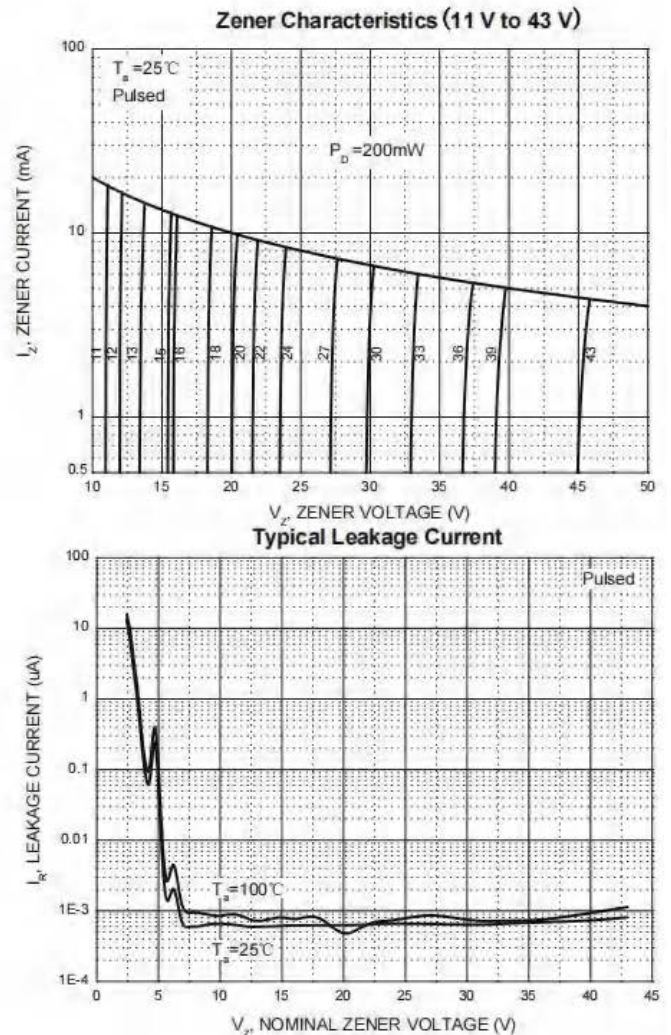
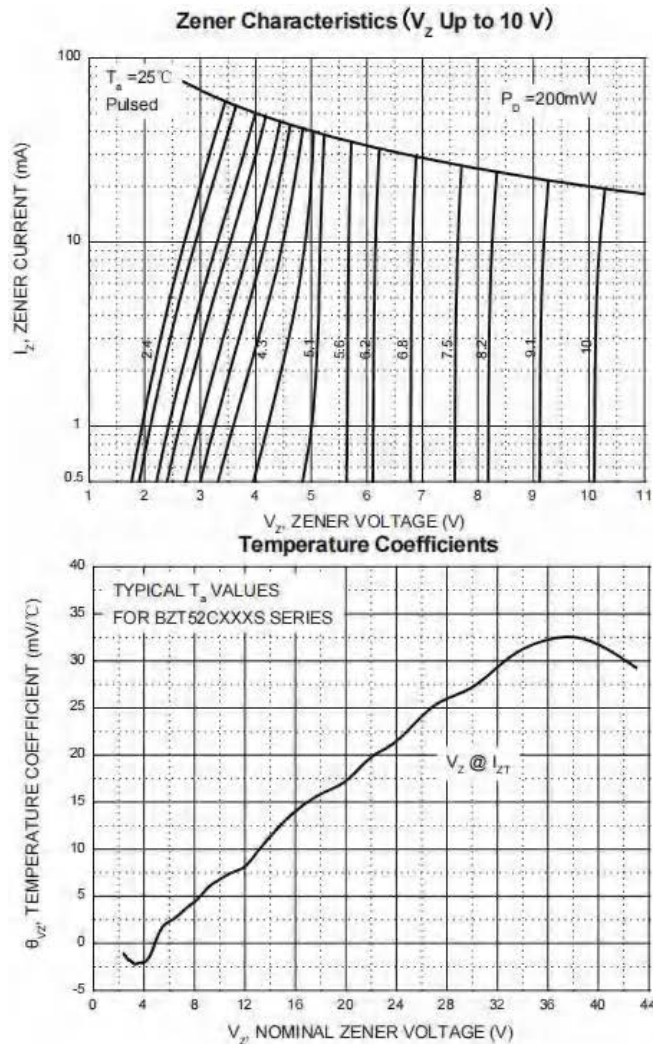
Symbol	Parameter	Value	Unit
V _F	Forward Voltage (Note 2) @ I _F =10mA	0.9	V
P _d	Power Dissipation (Note 1)	200	mW
R _{ΘJA}	Thermal Resistance From Junction To Ambient	625	°C/W
T _J	Operation Junction Temperature Range	-40~+125	°C
T _{STG}	Storage Temperature Range	-55~+150	°C

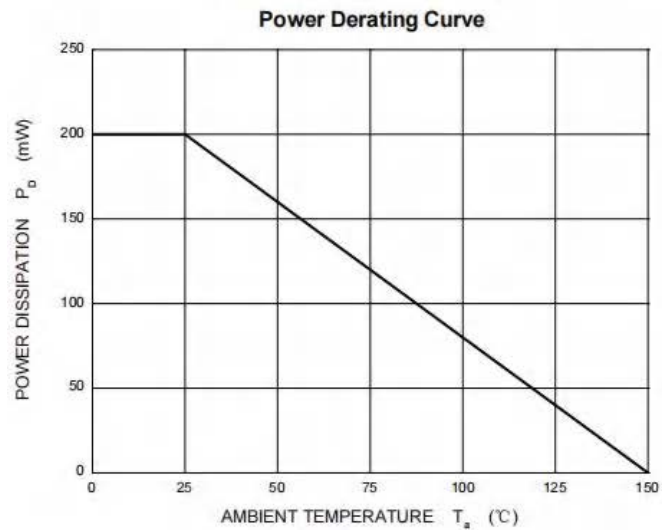
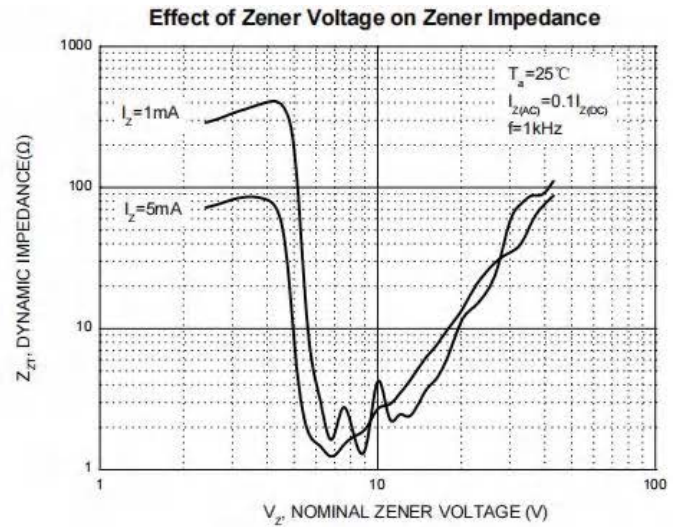
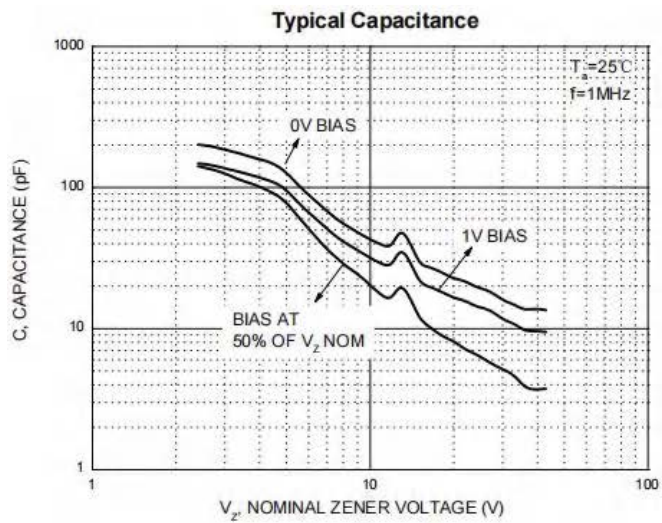
Electrical Characteristics (Ta =25°C unless otherwise specified)

TYPE	Mark ing	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} (mA)	V _Z @I _{ZT}	V _Z @I _{ZK}	I _{ZK} (mA)	I _R	V _R			
		Nom	Min	Max		Ω			μA	V	Min	Max	mA
BZT52C5V1S-7-F	W8	5.1	4.8	5.4	5	60	480	1.0	2	2.0	-2.7	1.2	5



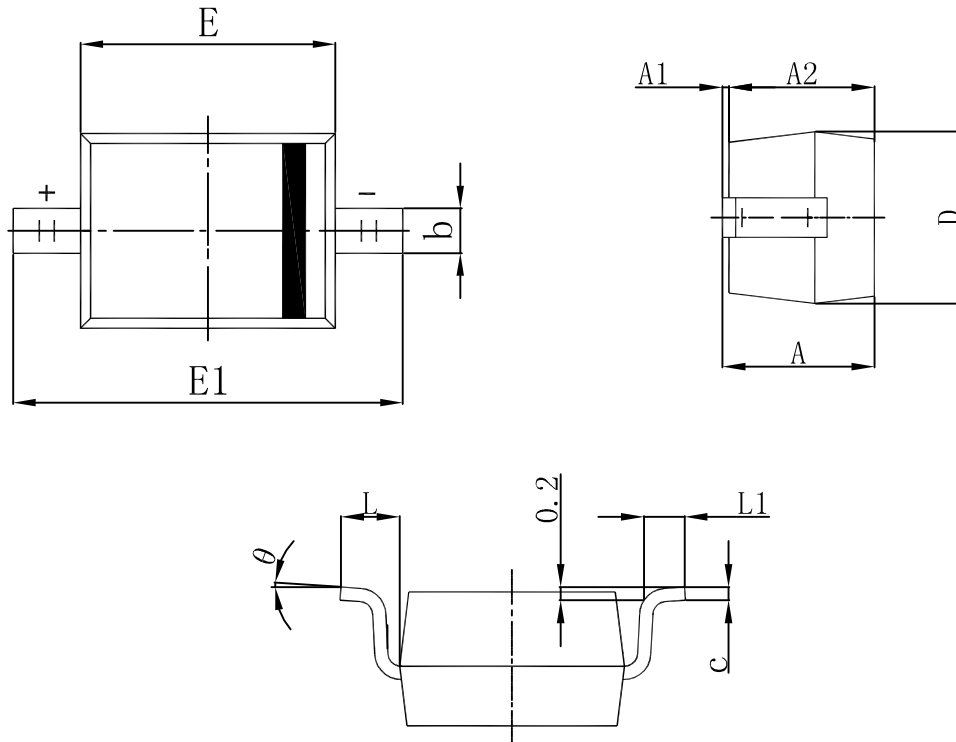
Typical Characteristics







Package Outline Dimensions
SOD-323(SOD-323S)



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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