

**FEATURES**

- Planar Die Construction
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes
- Available in Lead Free Version

**Maximum Ratings(Ta=25°C unless otherwise specified)**

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 2) @ I <sub>F</sub> = 10mA	V <sub>F</sub>	0.9	V
Power Dissipation(Note 1)	P <sub>d</sub>	200	mW
Thermal Resistance from Junction to Ambient	R <sub>θJA</sub>	625	°C/W
Operation Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 ~ +150	°C

Notes: 1. Mounted on 1 in<sup>2</sup> FR-4 board with 2oz. Copper, in a still air environment with Ta=25 °C.  
2. Short duration test pulse used to minimize self-heating effect



## ZENER DIODE

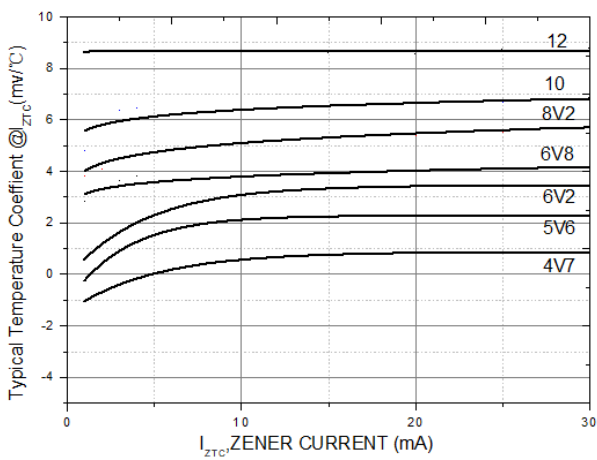
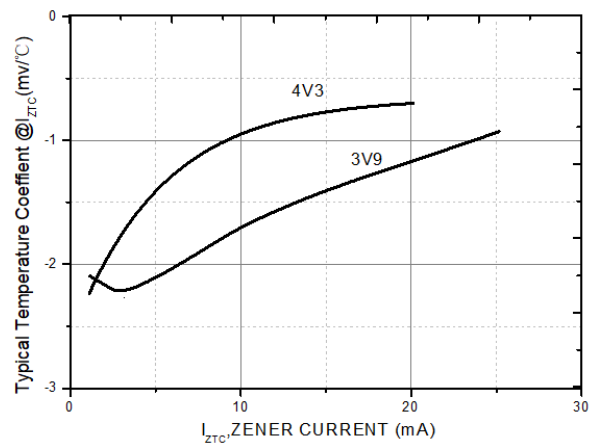
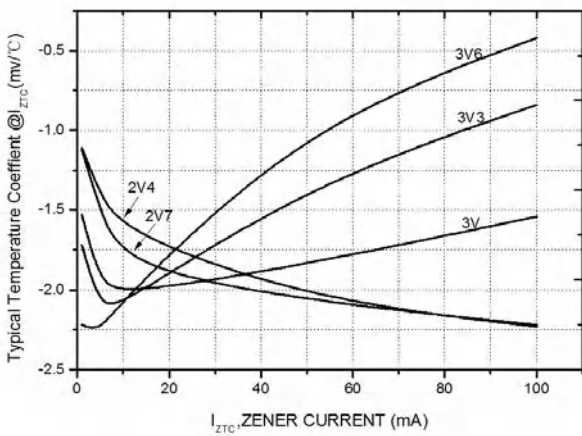
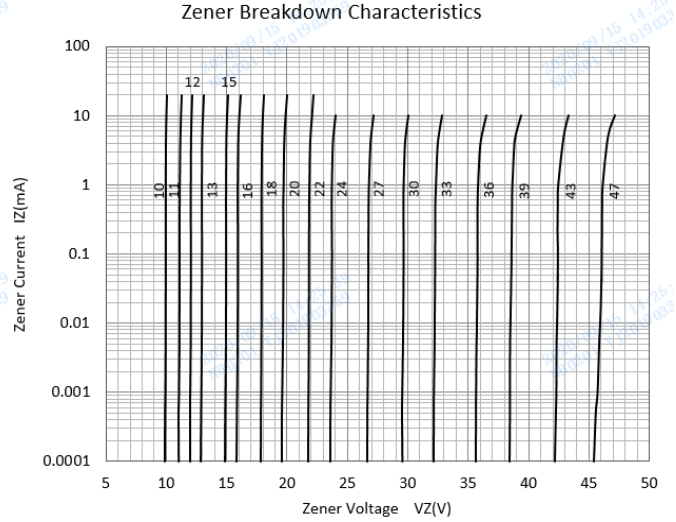
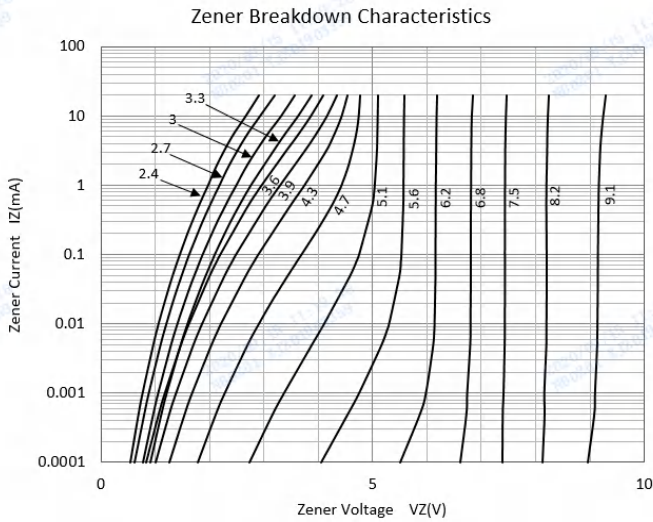
ELECTRICAL CHARACTERISTICS  $T_a=25^\circ\text{C}$  unless otherwise specified

Type Number	Device Marking	$V_z$ at $I_{zT}$ (V)			$Z_{zT}(\Omega)$		$Z_{zk}(\Omega)$		$I_R(\mu\text{A})@V_R$		Typical Temperature Coefficient@ IZTC $\text{mV}/^\circ\text{C}$	
		min.	typ.	max.	$I_{zT}(\text{mA})$	max.	$I_{zk}(\text{mA})$	max.	max.	$V_R(\text{V})$	Min	Max
BZT52B47S	2WV	46.06	47	47.94	5	110	1	375	0.1	35.0	42.0	51.8
BZT52B51S	2WW	50.0	51	52.0	2	180	0.5	400	0.05	35.7	46.6	57.2
BZT52B56S	2XW/X2	54.9	56	57.1	2	200	0.5	425	0.05	39.2	52.2	63.8
BZT52B62S	X3	60.8	62	63.2	2	215	0.5	450	0.05	43.4	58.8	71.6
BZT52B68S	X4	66.64	68	69.36	2	240	0.5	475	0.05	47.6	65.6	79.8
BZT52B75S	X5	73.5	75	76.5	2	255	0.5	500	0.05	52.5	73.4	88.6

- Notes: 1. Mounted on 1 in<sup>2</sup> FR-4 board with 2oz. Copper, in a still air environment with  $T_a=25^\circ\text{C}$ .  
2. Short duration test pulse used to minimize self-heating effect  
3.  $f = 1\text{kHz}$

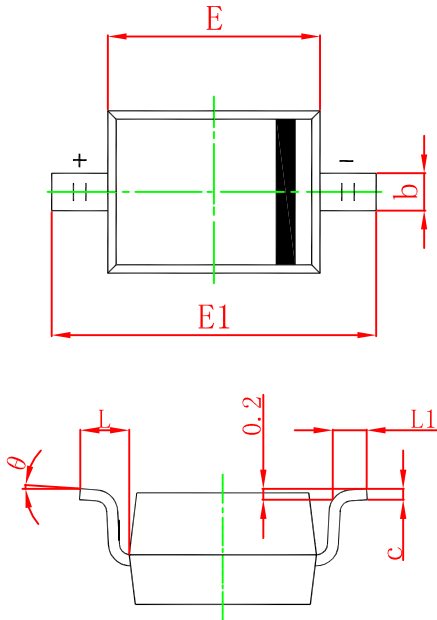


Typical Characteristics



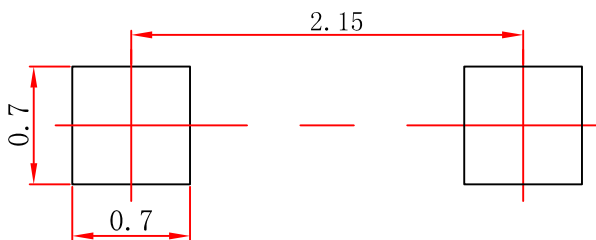


SOD-323 Package Outline Dimensions



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°

SOD-323 Suggested Pad Layout



- Note:**
1. Controlling dimension: in millimeters.
  2. General tolerance:  $\pm 0.05\text{mm}$ .
  3. The pad layout is for reference purposes only.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Zener Diodes](#) category:*

*Click to view products by [XZT](#) manufacturer:*

Other Similar products are found below :

[RKZ13B2KG#P1](#) [DL5234B](#) [1N4682](#) [1N4693](#) [1N4732A](#) [1N4736A](#) [1N4750A](#) [1N4759ARL](#) [1N5241B](#) [1N5365B](#) [1N5369B](#) [1N747A](#)  
[1N964B](#) [1N966B](#) [1N968B](#) [1N972B](#) [JANS1N4974US](#) [JANTX1N5907](#) [1N4692](#) [1N4702](#) [1N4704](#) [1N4711](#) [1N4714](#) [1N4745ARL](#)  
[1N4752ARL](#) [1N4760ARL](#) [1N5221B](#) [1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#) [3SMAJ5946B-TP](#)  
[3SMAJ5950B-TP](#) [MMSZ5230BQ-13-F](#) [MMSZ5232BQ-13-F](#) [BZX84C7V5](#) [3SMAJ5945B-TP](#) [3SMAJ5947B-TP](#) [3SMBJ5941B-TP](#)  
[DZ2S240M0L](#) [SMAZ27-TP](#) [ZMM5224B-7](#) [RD16UM-T1-A](#) [RD10S-T1-A](#) [CDZT2R5.6B](#) [1N4762A G](#) [Z1SMA18](#) [JANTX1N4553B](#)