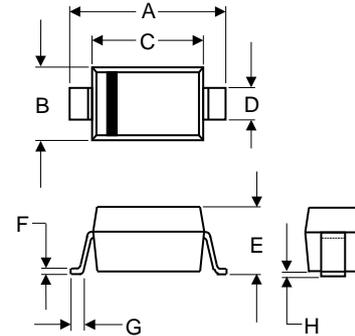


Features

- * Ideally suited for automated assembly processes
- * Total power dissipation: max. 500 mW



RoHS
COMPLIANT



SOD-123				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.138	0.150	3.50	3.80
B	0.059	0.067	1.50	1.70
C	0.100	0.106	2.54	2.70
D	0.020	0.028	0.50	0.70
E	0.036	0.048	0.91	1.21
F	0.003	0.008	0.08	0.20
G	0.008	0.016	0.20	0.40
H	---	0.004	---	0.10

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	500	mW
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	- 65 to + 150	°C

Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	R _{thA}	340	°C/W
Forward Voltage at I _F = 10 mA	V _F	0.9	V

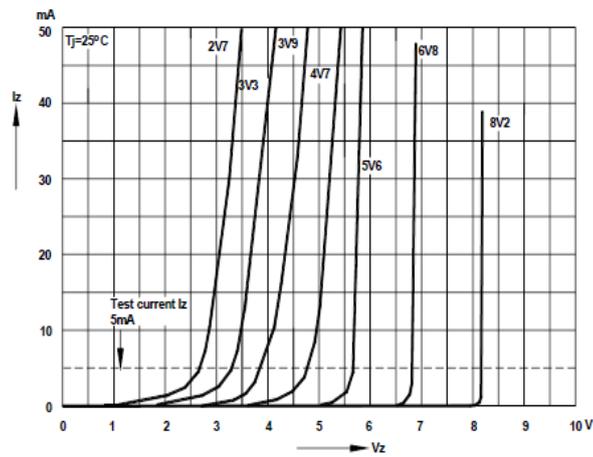
Electrical Characteristics (T_A=25°C unless otherwise noted)

Type	Zener Voltage Range ¹⁾			Dynamic Impedance				Reverse Leakage Current	
	V _{znom}	V _{ZT}	at I _{ZT}	Z _{zT}	at I _{ZT}	Z _{zk}	at I _{ZK}	I _R	at V _R
	V	V	mA	Max. (Ω)	mA	Max. (Ω)	mA	Max. (μA)	V
BZT52C2V4	2.4	2.2...2.6	5	100	5	600	1	50	1
BZT52C2V7	2.7	2.5...2.9	5	100	5	600	1	20	1
BZT52C3V0	3	2.8...3.2	5	95	5	600	1	10	1
BZT52C3V3	3.3	3.1...3.5	5	95	5	600	1	5	1
BZT52C3V6	3.6	3.4...3.8	5	90	5	600	1	5	1
BZT52C3V9	3.9	3.7...4.1	5	90	5	600	1	3	1
BZT52C4V3	4.3	4...4.6	5	90	5	600	1	3	1
BZT52C4V7	4.7	4.4...5	5	80	5	500	1	3	2
BZT52C5V1	5.1	4.8...5.4	5	60	5	480	1	2	2
BZT52C5V6	5.6	5.2...6	5	40	5	400	1	1	2
BZT52C6V2	6.2	5.8...6.6	5	10	5	150	1	3	4
BZT52C6V8	6.8	6.4...7.2	5	15	5	80	1	2	4
BZT52C7V5	7.5	7...7.9	5	15	5	80	1	1	5
BZT52C8V2	8.2	7.7...8.7	5	15	5	80	1	0.7	5
BZT52C9V1	9.1	8.5...9.6	5	15	5	100	1	0.5	6
BZT52C10	10	9.4...10.6	5	20	5	150	1	0.2	7
BZT52C11	11	10.4...11.6	5	20	5	150	1	0.1	8
BZT52C12	12	11.4...12.7	5	25	5	150	1	0.1	8
BZT52C13	13	12.4...14.1	5	30	5	170	1	0.1	8
BZT52C15	15	13.8...15.6	5	30	5	200	1	0.1	10.5
BZT52C16	16	15.3...17.1	5	40	5	200	1	0.1	11.2
BZT52C18	18	16.8...19.1	5	45	5	225	1	0.1	12.6
BZT52C20	20	18.8...21.2	5	55	5	225	1	0.1	14
BZT52C22	22	20.8...23.3	5	55	5	250	1	0.1	15.4
BZT52C24	24	22.8...25.6	5	70	5	250	1	0.1	16.8
BZT52C27	27	25.1...28.9	2	80	2	300	0.5	0.1	18.9
BZT52C30	30	28...32	2	80	2	300	0.5	0.1	21
BZT52C33	33	31...35	2	80	2	325	0.5	0.1	23.1
BZT52C36	36	34...38	2	90	2	350	0.5	0.1	25.2
BZT52C39	39	37...41	2	130	2	350	0.5	0.1	27.3
BZT52C43	43	40...46	2.5	130	2	500	1	2	33
BZT52C47	47	44...50	2.5	150	2	500	1	2	36
BZT52C51	51	48...54	2.5	180	2	500	1	1	39
BZT52C56	56	52...60	2.5	180	2	500	1	1	43
BZT52C62	62	58...66	2.5	200	2	500	1	0.2	47
BZT52C68	68	64...72	2.5	250	2	500	1	0.2	52
BZT52C75	75	70...79	2.5	300	2	500	1	0.2	57

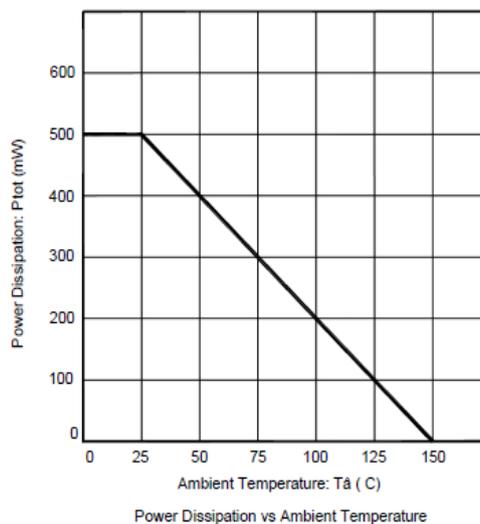
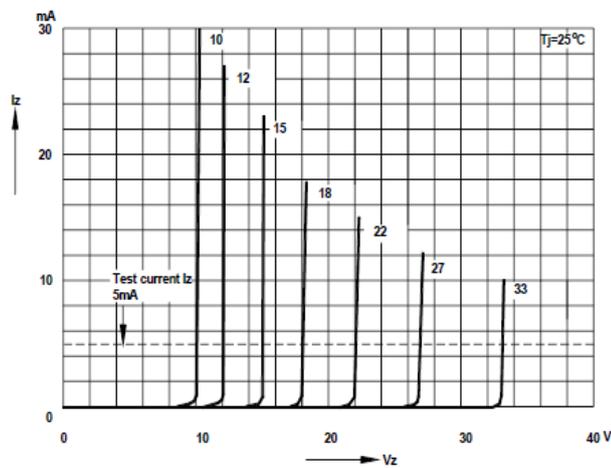
Note:1) V_{ZT} is tested with pulses (20 ms).

Ratings and Characteristic Curves

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



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





BZT52C2V4 THRU BZT52C75
Silicon Planar Zener Diodes

Ordering Information

Part No.	Package	Packing Code	Packing
BZT52C2V4 THRU BZT52C75	SOD-123	R30	3000pcs/Reel

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