

SOD-323 Plastic-Encapsulate Diodes

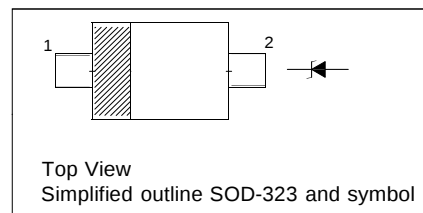
ZENER DIODE

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings (T_a=25°C unless otherwise specified)

Characteristic	Symbol	Value	Unit
Forward Voltage (Note 2) @ I _F = 10mA	V _F	0.9	V
Power Dissipation(Note 1)	P _D	200	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	625	°C/W
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	-55~+150	°C

Characteristics at Ta = 25°C

Type	Marking Code	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
BZT52C2V4S	MH	2.4	2.2...2.6	5	100	5	600	1	50	1
BZT52C2V7S	MJ	2.7	2.5...2.9	5	100	5	600	1	20	1
BZT52C3V0S	MK	3.0	2.8...3.2	5	95	5	600	1	10	1
BZT52C3V3S	MM	3.3	3.1...3.5	5	95	5	600	1	5	1
BZT52C3V6S	MN	3.6	3.4...3.8	5	90	5	600	1	5	1
BZT52C3V9S	MP	3.9	3.7...4.1	5	90	5	600	1	3	1
BZT52C4V3S	MR	4.3	4...4.6	5	90	5	600	1	3	1
BZT52C4V7S	MX	4.7	4.4...5	5	80	5	500	1	3	2
BZT52C5V1S	MY	5.1	4.8...5.4	5	60	5	480	1	2	2
BZT52C5V6S	MZ	5.6	5.2...6	5	40	5	400	1	1	2
BZT52C6V2S	NA	6.2	5.8...6.6	5	10	5	150	1	3	4
BZT52C6V8S	NB	6.8	6.4...7.2	5	15	5	80	1	2	4
BZT52C7V5S	NC	7.5	7...7.9	5	15	5	80	1	1	5
BZT52C8V2S	ND	8.2	7.7...8.7	5	15	5	80	1	0.7	5
BZT52C9V1S	NE	9.1	8.5...9.6	5	15	5	100	1	0.5	6
BZT52C10S	NF	10	9.4...10.6	5	20	5	150	1	0.2	7
BZT52C11S	NH	11	10.4...11.6	5	20	5	150	1	0.1	8
BZT52C12S	NJ	12	11.4...12.7	5	25	5	150	1	0.1	8
BZT52C13S	NK	13	12.4...14.1	5	30	5	170	1	0.1	8
BZT52C15S	NM	15	13.8...15.6	5	30	5	200	1	0.1	10.5
BZT52C16S	NN	16	15.3...17.1	5	40	5	200	1	0.1	11.2
BZT52C18S	NP	18	16.8...19.1	5	45	5	225	1	0.1	12.6
BZT52C20S	NR	20	18.8...21.2	5	55	5	225	1	0.1	14
BZT52C22S	NX	22	20.8...23.3	5	55	5	250	1	0.1	15.4
BZT52C24S	NY	24	22.8...25.6	5	70	5	250	1	0.1	16.8
BZT52C27S	NZ	27	25.1...28.9	2	80	2	300	0.5	0.1	18.9
BZT52C30S	PA	30	28...32	2	80	2	300	0.5	0.1	21
BZT52C33S	PB	33	31...35	2	80	2	325	0.5	0.1	23.1
BZT52C36S	PC	36	34...38	2	90	2	350	0.5	0.1	25.2
BZT52C39S	PD	39	37...41	2	130	2	350	0.5	0.1	27.3
BZT52C43S	6A	43	40...46	2.5	130	2	500	1	2	33
BZT52C47S	6B	47	44...50	2.5	150	2	500	1	2	36
BZT52C51S	6C	51	48...54	2.5	180	2	500	1	1	39
BZT52C56S	6D	56	52...60	2.5	180	2	500	1	1	43
BZT52C62S	6E	62	58...66	2.5	200	2	500	1	0.2	47
BZT52C68S	6F	68	64...72	2.5	250	2	500	1	0.2	52
BZT52C75S	6H	75	70...79	2.5	300	2	500	1	0.2	57

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

