

Features

- Ultra-Small Surface Mount Package
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Ideal for Automated Assembly



Package: SOD-323

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

Symbol	Rating	Unit
V _F	0.9	V
PD	500	mW
R _{θJA}	305	°C/W
T _J ,T _{STG}	-65 to +150	°C



RoHS
COMPLIANT

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

Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Reverse Current		Temperature Coefficient of Zener Voltage @I _{ZT} =5mA mV/°C	
		V _Z @I _{ZT}			Z _{TI}	Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I _R	@V _R	Min	Max
		Nom (V)	Min (V)	Max (V)	mA	Ω	mA	uA	V			
BZT52C2V4S	WX	2.4	2.2	2.6	5	100	600	1	50	1	-3.5	0
BZT52C2V7S	W1	2.7	2.5	2.9	5	100	600	1	20	1	-3.5	0
BZT52C3V0S	W2	3	2.8	3.2	5	95	600	1	10	1	-3.5	0
BZT52C3V3S	W3	3.3	3.1	3.5	5	95	600	1	5	1	-3.5	0
BZT52C3V6S	W4	3.6	3.4	3.8	5	90	600	1	5	1	-3.5	0
BZT52C3V9S	W5	3.9	3.7	4.1	5	90	600	1	3	1	-3.5	0
BZT52C4V3S	W6	4.3	4	4.6	5	90	600	1	3	1	-3.5	0
BZT52C4V7S	W7	4.7	4.4	5	5	80	500	1	3	2	-3.5	0.2
BZT52C5V1S	W8	5.1	4.8	5.4	5	60	480	1	2	2	-2.7	1.2
BZT52C5V6S	W9	5.6	5.2	6	5	40	400	1	1	2	-2	2.5
BZT52C6V2S	WA	6.2	5.8	6.6	5	10	150	1	3	4	0.4	3.7
BZT52C6V8S	WB	6.8	6.4	7.2	5	15	80	1	2	4	1.2	4.5
BZT52C7V5S	WC	7.5	7	7.9	5	15	80	1	1	5	2.5	5.3
BZT52C8V2S	WD	8.2	7.7	8.7	5	15	80	1	0.7	5	3.2	6.2

BZT52CxxxS Series

Surface Mount Zener Diodes

Vz Range: 2.4 to 51V Power Dissipation: 500mW

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

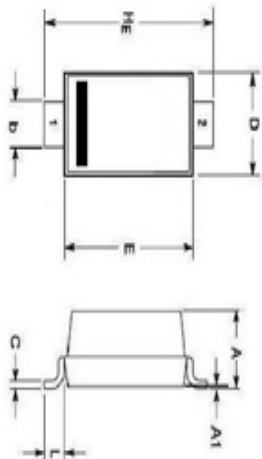
Type Number	Marking Code	Zener Voltage Range				Maximum Zener Impedance			Reverse Current		Temperature Coefficient of Zener Voltage @ $I_{ZT}=5\text{mA}$ mV/°c	
		Vz @ I_{ZT}			Z _{T1}	Z _{ZT} @ I_{ZT}	Z _{ZK} @ I_{ZK}	I _{ZK}	I _R	@V _R	Min	Max
		Nom (V)	Min (V)	Max (V)	mA	Ω		mA	uA	V		
BZT52C9V1S	WE	9.1	8.5	9.6	5	15	100	1	0.5	6	3.8	7
BZT52C10S	WF	10	9.4	10.6	5	20	150	1	0.2	7	4.5	8
BZT52C11S	WG	11	10.4	11.6	5	20	150	1	0.1	8	5.4	9
BZT52C12S	WH	12	11.4	12.7	5	25	150	1	0.1	8	6	10
BZT52C13S	WI	13	12.4	14.1	5	30	170	1	0.1	8	7	11
BZT52C15S	WJ	15	13.8	15.6	5	30	200	1	0.1	10.5	9.2	13
BZT52C16S	WK	16	15.3	17.1	5	40	200	1	0.1	11.2	10.4	14
BZT52C18S	WL	18	16.8	19.1	5	45	225	1	0.1	12.6	12.4	16
BZT52C20S	WM	20	18.8	21.2	5	55	225	1	0.1	14	14.4	18
BZT52C22S	WN	22	20.8	23.3	5	55	250	1	0.1	15.4	16.4	20
BZT52C24S	WO	24	22.8	25.6	5	70	250	1	0.1	16.8	18.4	22
BZT52C27S	WP	27	25.1	28.9	2	80	300	0.5	0.1	18.9	21.4	25.3
BZT52C30S	WQ	30	28	32	2	80	300	0.5	0.1	21	24.4	29.4
BZT52C33S	WR	33	31	35	2	80	325	0.5	0.1	23.1	27.4	33.4
BZT52C36S	WS	36	34	38	2	90	350	0.5	0.1	25.2	30.4	37.4
BZT52C39S	WT	39	37	41	2	130	350	0.5	0.1	27.3	33.4	41.2
BZT52C43S	WU	43	40.0	46.0	2	100	700	1.0	0.1	32.0	10.0	12.0
BZT52C47S	WV	47	44.0	50.0	2	100	750	1.0	0.1	35.0	10.0	12.0
BZT52C51S	WW	51	48.0	54.0	2	100	750	1.0	0.1	38.0	10.0	12.0

BZT52CxxxS Series

Surface Mount Zener Diodes

Vz Range: 2.4 to 51V Power Dissipation: 500mW

Product Dimensions



Unit: mm

	SOD-323	
	min	max
A	0.80	1.00
A1	0.00	0.10
b	0.25	0.40
C	0.089	0.177
D	1.15	1.35
E	1.60	1.80
HE	2.30	2.70
L	0.20	0.40

PIN: 1. CATHODE 2. ANODE