

10V 200mW Zener SMD Diode BZT52C10S Electronic Components

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH,RoHS,ISO
- Model Number: BZT52C10S
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- BZT52C10S Name: Zener Diode
- BZT52C10S Package Type: SOD-323
- BZT52C10S Power Dissipation: 200mW
- BZT52C10S Vz (Nom.): 10V
- Vz (Min.): 9.5V
- Vz (Max.): 10.5V
- ZZT (Max.): 15Ω
- IZT: 5mA
- Highlight: 200mW Zener SMD Diode, 10V Zener SMD Diode



Product Description

Zener Diode BZT52C10S 10V 200mW Electronic Components In Stock SMD Diode

SMD Diode DATASHEET: [BZT52C2V4S~BZT52C75S\(SOD-323\)_v2106.1.pdf](#)

SMD Diode Characteristics:

Constant Voltage control

It has Wide Voltage Range Selection: From 2.4V to 75V

Thin SMD package: SOD-323

Accord with RoHS compliant / Green EMC

Matte Tin (Sn) Lead finish

SMD Diode BZT52C10S Absolute Max. Ratings (TA=25):

SMD DiodeParameter	Symbol	SMD Diode Value	Units
SMD Diode Power Dissipation (Note 1)	P_D	200	mW
SMD Diode Junction Temperature	T_J	150	
SMD Diode Storage Temperature	T_{STG}	-55 to +150	
Maximum Regulator Current	I_{ZM}	P_D / V_Z	mA

Note1: Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm².

SMD Diode Electrical Characteristics (TA=25):

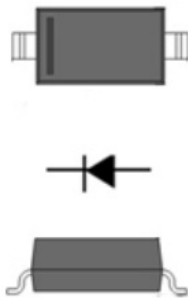
SMD Diode Part Number	SMD Diode Zener Voltage Range (Note 2)			SMD Diode Maximum Zener Impedance (Note 3)				SMD Diode Maximum Leakage Current (Note 2)	
	SMD Diode V_Z @ I_{ZT}			SMD Diode Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R	
	Nom. (V)	Min.(V)	Max.(V)	(Ω)	(mA)	(Ω)	(mA)	(μA)	(V)
BZT52C2V4S	2.4	2.20	2.60	100	5.0	600	1.0	50	1.0
BZT52C2V7S	2.7	2.50	2.90	100	5.0	600	1.0	20	1.0
BZT52C3V0S	3.0	2.80	3.20	95	5.0	600	1.0	10	1.0
BZT52C3V3S	3.3	3.10	3.50	95	5.0	600	1.0	5	1.0
BZT52C3V6S	3.6	3.40	3.80	90	5.0	600	1.0	5	1.0
BZT52C3V9S	3.9	3.70	4.10	90	5.0	600	1.0	3	1.0
BZT52C4V3S	4.3	4.00	4.60	90	5.0	600	1.0	3	1.0
BZT52C4V7S	4.7	4.40	5.00	80	5.0	500	1.0	3	2.0
BZT52C5V1S	5.1	4.80	5.40	60	5.0	480	1.0	2	2.0
BZT52C5V6S	5.6	5.20	6.00	40	5.0	400	1.0	1	2.0
BZT52C6V2S	6.2	5.80	6.60	10	5.0	150	1.0	3	4.0
BZT52C6V8S	6.8	6.40	7.20	15	5.0	80	1.0	2	4.0
BZT52C7V5S	7.5	7.00	7.90	15	5.0	80	1.0	1	5.0
BZT52C8V2S	8.2	7.70	8.70	15	5.0	80	1.0	0.7	5.0
BZT52C9V1S	9.1	8.50	9.60	15	5.0	100	1.0	0.5	6.0
BZT52C10S	10	9.40	10.60	20	5.0	150	1.0	0.2	7.0
BZT52C11S	11	10.40	11.60	20	5.0	150	1.0	0.1	8.0
BZT52C12S	12	11.40	12.70	25	5.0	150	1.0	0.1	8.0
BZT52C13S	13	12.40	14.10	30	5.0	170	1.0	0.1	8.0
BZT52C15S	15	13.80	15.60	30	5.0	200	1.0	0.1	10.5
BZT52C16S	16	15.30	17.10	40	5.0	200	1.0	0.1	11.2
BZT52C18S	18	16.80	19.10	45	5.0	225	1.0	0.1	12.6
BZT52C20S	20	18.80	21.20	55	5.0	225	1.0	0.1	14.0
BZT52C22S	22	20.80	23.30	55	5.0	250	1.0	0.1	15.4

BZT52C24S	24	22.80	25.60	70	5.0	250	1.0	0.1	16.8
BZT52C27S	27	25.10	28.90	80	2.0	300	0.5	0.1	18.9
BZT52C30S	30	28.00	32.00	80	2.0	300	0.5	0.1	21.0
BZT52C33S	33	31.00	35.00	80	2.0	325	0.5	0.1	23.1
BZT52C36S	36	34.00	38.00	90	2.0	350	0.5	0.1	25.2
BZT52C39S	39	37.00	41.00	130	2.0	350	0.5	0.1	27.3
BZT52C43S	43	40.00	46.00	100	2.0	700	1.0	0.1	32.0
BZT52C47S	47	44.00	50.00	100	2.0	750	1.0	0.1	35.0
BZT52C51S	51	48.00	54.00	100	2.0	750	1.0	0.1	38.0
BZT52C56S	56	53.20	58.80	200	2.0	400	0.5	0.045	39.2
BZT52C62S	62	58.90	65.10	215	2.0	423	0.5	0.045	43.4
BZT52C68S	68	64.60	71.40	240	2.0	447	0.5	0.045	47.6
BZT52C75S	75	71.25	78.75	255	2.0	470	0.5	0.045	52.5

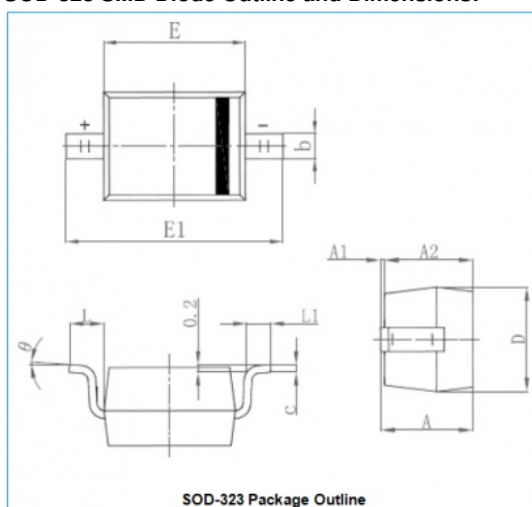
Note 2: Short duration test pulse used to minimize self-heating effect. Note 3: $f=1\text{kHz}$.

SOD-323 SMD Diode Circuit Picture:

SOD-323



SOD-323 SMD Diode Outline and Dimensions:



Symbol	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	--	1.000	--	0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.500	0.047	0.059
E	1.600	1.800	0.063	0.071
E1	2.550	2.750	0.100	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 SMD Diode Quantity:

Part Number	Package	Shipping
BZT52C2V4S~BZT52C75S	SOD-323	Tape & Reel 3000 PCS / 7" Reel

