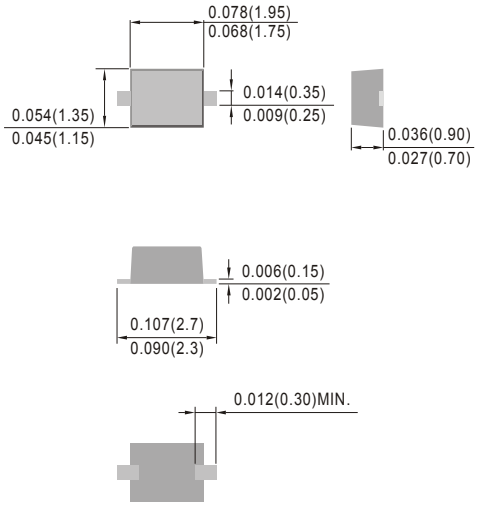
BZT52-C2V4S SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 2.4 to 75 Volt **POWER** 200 mWatt

SOD-323 Unit : inch(mm)



FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Zener Voltages from 2.4~75V
- Ideally Suited for Automated Assembly Processes
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

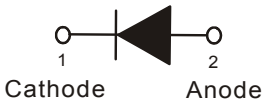
MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams
- Polarity : Color band cathode

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation (Notes A) at T_A = 25°C	P_D	200	mW
Typical Thermal Resistance	$R_{\theta JA}$	650	°C/W
Operating Junction Temperature and StorageTemperature Range	T_J	-55 to +150	°C





NOTES :

A. Mounted on a FR-4 PCB, single-sided copper, with 100cm^2 copper pad area
B. Mounted on a FR-4 PCB, single-sided copper, mini pad

BZT52-C2V4S SERIES

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V_Z @ I_{ZT}			Z_{ZT} @ I_{ZT}		Z_{ZK} @ I_{ZK}		I_R @ V_R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
200 mWatts Zener Diodes										
BZT52-C2V4S	2.4	2.28	2.52	85	5.0	600	1.00	100	1.0	W1
BZT52-C2V7S	2.7	2.57	2.84	83	5.0	600	1.00	75	1.0	W2
BZT52-C3S	3.0	2.85	3.15	95	5.0	600	1.00	50	1.0	W3
BZT52-C3V3S	3.3	3.14	3.47	95	5.0	600	1.00	25	1.0	W4
BZT52-C3V6S	3.6	3.42	3.78	95	5.0	600	1.00	15	1.0	W5
BZT52-C3V9S	3.9	3.71	4.10	95	5.0	600	1.00	10	1.0	W6
BZT52-C4V3S	4.3	4.09	4.52	95	5.0	600	1.00	5.0	1.0	W7
BZT52-C4V7S	4.7	4.47	4.94	78	5.0	500	1.00	5.0	1.0	W8
BZT52-C5V1S	5.1	4.85	5.36	60	5.0	480	1.00	0.1	0.8	W9
BZT52-C5V6S	5.6	5.32	5.88	40	5.0	400	1.00	0.1	1.0	WA
BZT52-C6V2S	6.2	5.89	6.51	10	5.0	150	1.00	0.1	2.0	WB
BZT52-C6V8S	6.8	6.46	7.14	8	5.0	80	1.00	0.1	3.0	WC
BZT52-C7V5S	7.5	7.13	7.88	7	5.0	80	1.00	0.1	5.0	WD
BZT52-C8V2S	8.2	7.79	8.61	7	5.0	80	1.00	0.1	6.0	WE
BZT52-C8V7S	8.7	8.27	9.14	7	5.0	100	1.00	0.1	6.5	87C
BZT52-C9V1S	9.1	8.65	9.56	10	5.0	100	1.00	0.1	7.0	WF
BZT52-C10S	10	9.50	10.50	15	5.0	150	1.00	0.1	7.5	WG
BZT52-C11S	11	10.45	11.55	20	5.0	150	1.00	0.1	8.5	WH
BZT52-C12S	12	11.40	12.60	20	5.0	150	1.00	0.1	9.0	WI
BZT52-C13S	13	12.35	13.65	25	5.0	170	1.00	0.1	10.0	WK
BZT52-C14S	14	13.30	14.70	25	5.0	170	1.00	0.1	10.5	WJ
BZT52-C15S	15	14.25	15.75	30	5.0	200	1.00	0.1	11.0	WL
BZT52-C16S	16	15.20	16.80	40	5.0	200	1.00	0.1	12.0	WM
BZT52-C17S	17	16.15	17.85	40	5.0	200	1.00	0.1	13.0	17C
BZT52-C18S	18	17.10	18.90	50	5.0	225	1.00	0.1	14.0	WN
BZT52-C20S	20	19.00	21.00	50	5.0	225	1.00	0.1	15.0	WO
BZT52-C22S	22	20.90	23.10	55	5.0	250	1.00	0.1	17.0	WP
BZT52-C24S	24	22.80	25.20	80	5.0	250	1.00	0.1	18.0	WR
BZT52-C27S	27	25.65	28.35	80	5.0	300	1.00	0.1	20.0	WS
BZT52-C28S	28	26.60	29.40	80	5.0	300	1.00	0.1	22.0	28C
BZT52-C30S	30	28.50	31.50	80	5.0	300	1.00	0.1	22.5	WT
BZT52-C33S	33	31.35	34.65	80	5.0	325	1.00	0.1	25.0	WU
BZT52-C36S	36	34.20	37.80	90	5.0	350	1.00	0.1	27.0	WW
BZT52-C39S	39	37.05	40.95	90	5.0	350	1.00	0.1	29.0	WX
BZT52-C43S	43	40.85	45.15	100	5.0	375	1.00	0.1	32.0	WY
BZT52-C47S	47	44.65	49.35	100	5.0	375	1.00	0.1	35.0	WZ
BZT52-C51S	51	48.45	53.55	100	5.0	400	1.00	0.1	38.0	XA
BZT52-C56S	56	53.20	58.80	135	2.5	1000	1.00	0.1	42.0	X2
BZT52-C62S	62	58.90	65.10	150	2.5	1000	1.00	0.1	46.0	X3
BZT52-C68S	68	64.60	71.40	200	2.5	1000	1.00	0.1	51.0	X4
BZT52-C75S	75	71.25	78.75	250	2.5	1000	1.00	0.1	56.0	X5

BZT52-C2V4S SERIES

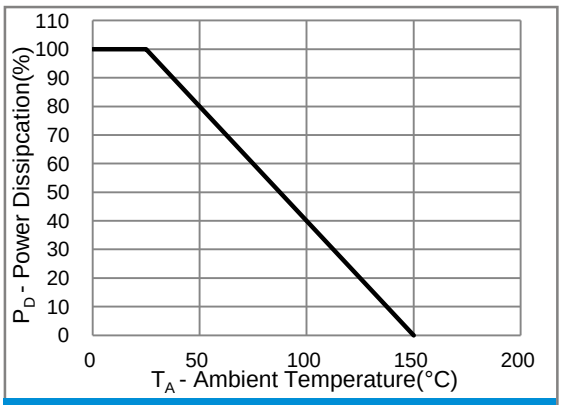


Fig.1 Power Derating Curve

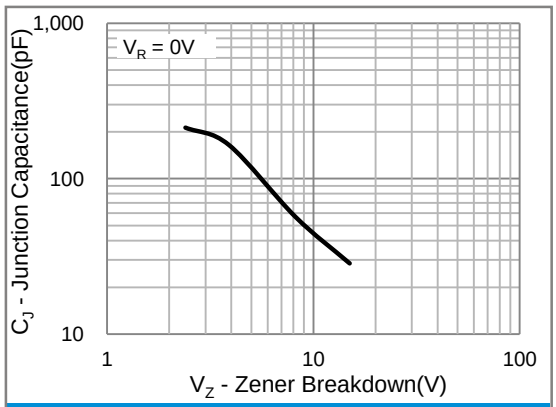


Fig.2 Typical Junction Capacitance

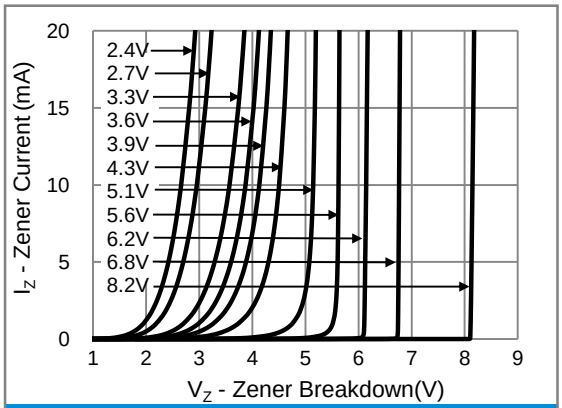


Fig.3 Typical Zener Breakdown

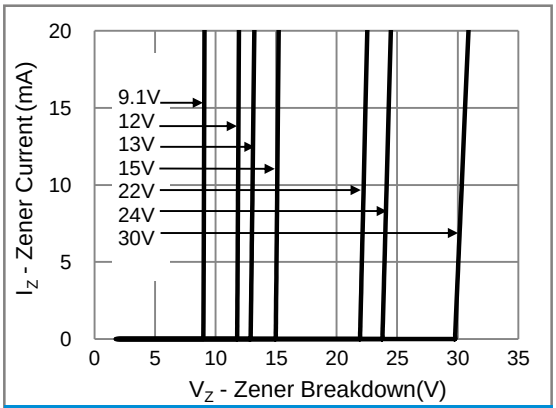


Fig.4 Typical Zener Breakdown

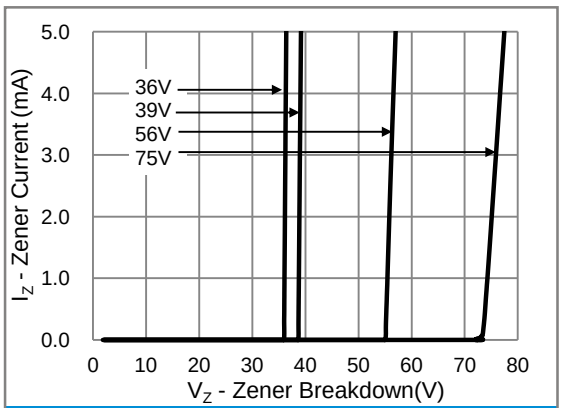
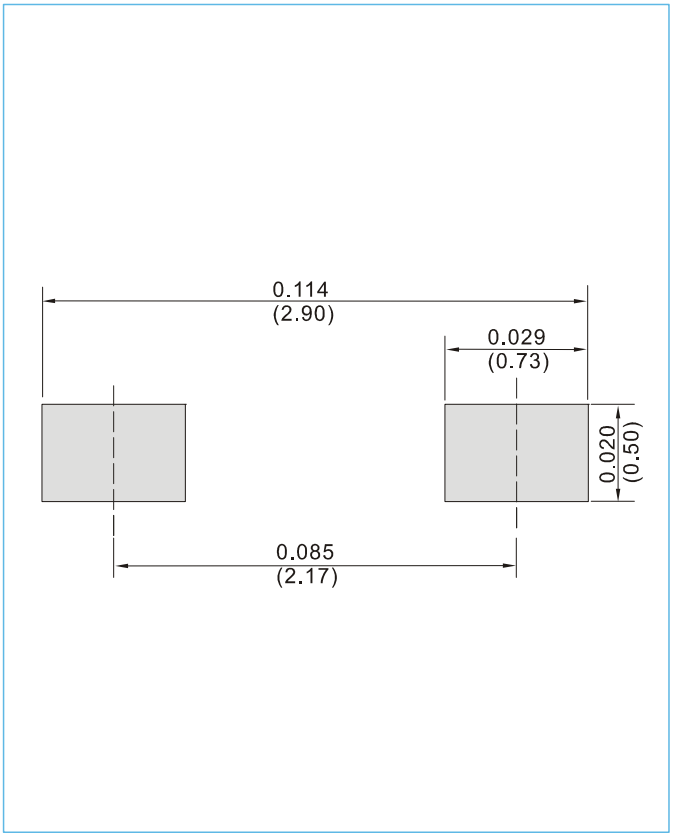


Fig.5 Typical Zener Breakdown

BZT52-C2V4S SERIES

MOUNTING PAD LAYOUT

SOD-323 Unit : inch(mm)



ORDER INFORMATION

- Packing information

  T/R - 12K per 13" plastic Reel

  T/R - 5K per 7" plastic Reel

BZT52-C2V4S SERIES

Part No_packing code_Version

BZT52-C2V4S_R1_00001

BZT52-C2V4S_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

BZT52-C2V4S SERIES

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