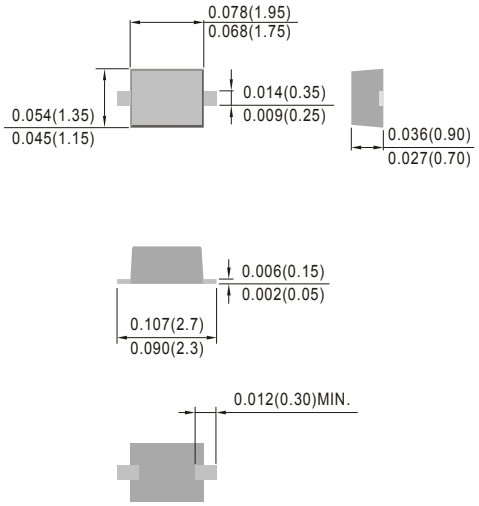
BZT52-C2V4S SERIES

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

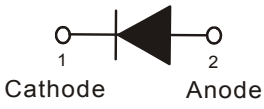
MECHANICAL DATA

- 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

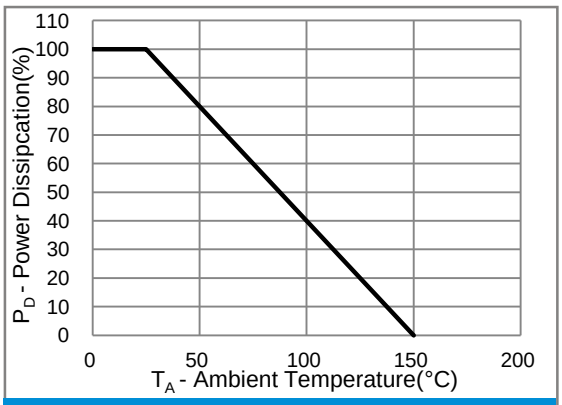


Fig.1 Power Derating Curve

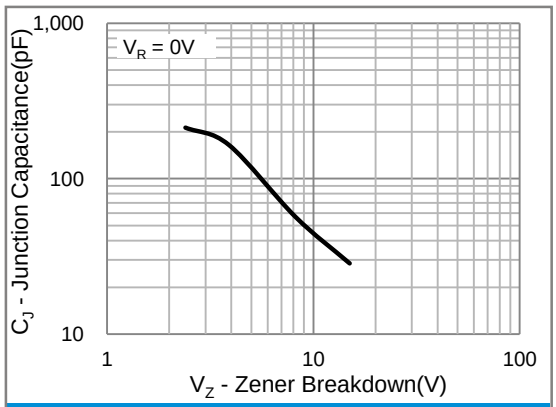


Fig.2 Typical Junction Capacitance

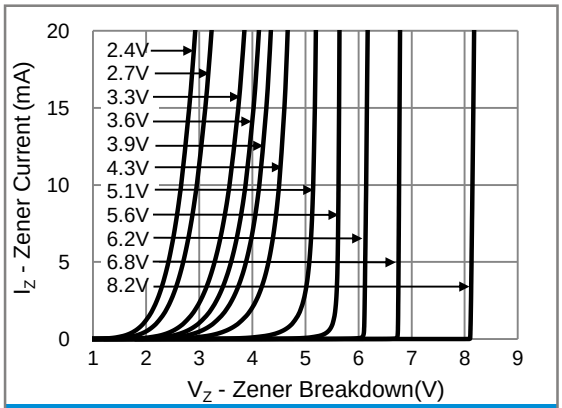


Fig.3 Typical Zener Breakdown

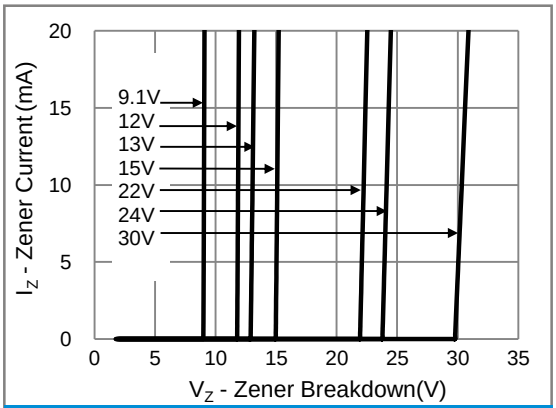


Fig.4 Typical Zener Breakdown

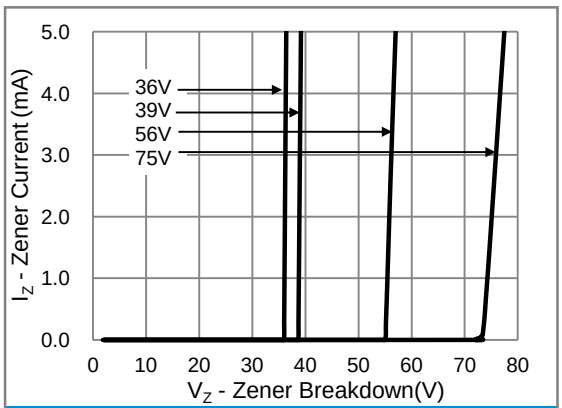
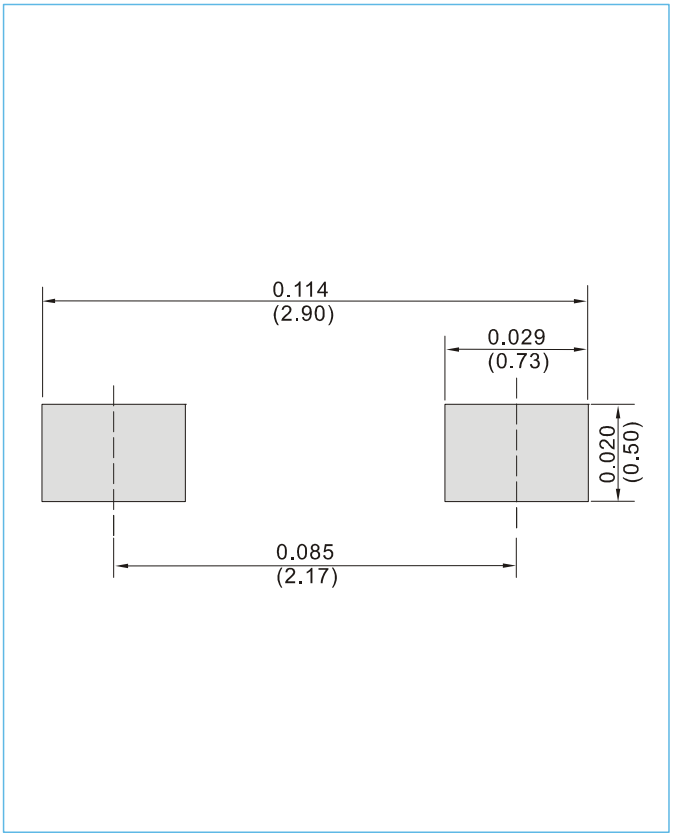


Fig.5 Typical Zener Breakdown

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

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

PANJIT:

MMSZ5245AS_R1_00001 S1G_R2_00001 ER2004CT_TO_00001 P4FL6.5A_R1_00001
P6SMB75A_R3_00001 P6SMBJ10A_R1_00001 S100_R1_00001 BAT750_R1_00001
BZT52-B8V2S_R1_00001 S3JA_R2_00001 BSS8402DW_R1_00001 BZT52-B27S
SB36AFC-AU_R1_000A1 BZT52B12S_R1_00001 ER2D_R2_00001 GS1M_R1_10001
P4SMAJ180A_R1_00001 PSDH6060CCS1_T0_00001 SB34AFC-AU_R1_000A1 ZMM55-C43_R1_10001
BAV70_R1_00101 GS1010FL-LE_R1_00001 PJSD24TS-AU_R1_000A1 PSDB1560L1_T0_00001
BAV99_R1_00001 MMSZ5242B_R1_00001 SS20100FL_R1_00001 UF808_T0_00001
MMSZ5248B_R1_00001 SB34AFC_R1_00001