



BZT52B2V4S THRU BZT52B75S

Features

- Planar Die Construction
- 200mW Power Dissipation
- General Purpose Medium Current
- Ideally Suited for Automated Assembly Processes
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant("P" Suffix designates RoHS Compliant. See ordering information)
- Halogen free available upon request by adding suffix "-HF"
- Standard Vz tolerance is +/-2%

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
P_D	Power dissipation*	200	mW
T_J	Junction Temperature	-55 to +175	°C
T_{STG}	Storage Temperature Range	-55 to +175	°C

* Mounted on 5.0mm²(.013mm thick) land areas.

Absolute Maximum Ratings

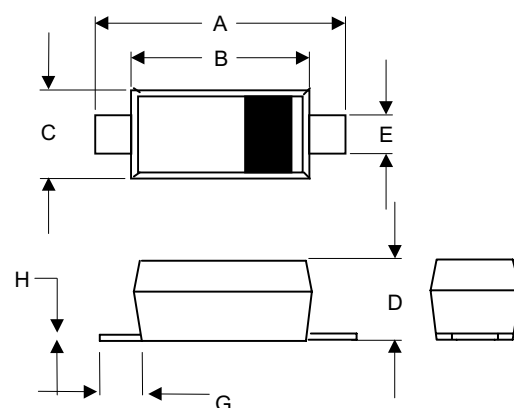
Symbol	Parameter	Rating	Unit
R_{thJA}	Thermal Resistance Junction to Ambient*	625	°C/W

Electrical Characteristics

Symbol	Parameter	Rating	Unit
V_F	Maximum Forward Voltage ($I_F=10mA_{dc}$)	0.9	V

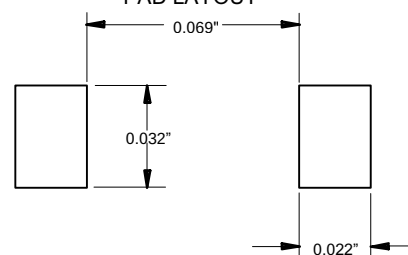
**200 mW
Zener Diode
2.4 to 75 Volts**

SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.068	.078	1.75	1.95	
C	.045	.053	1.15	1.35	
D	.027	.038	0.70	0.95	
E	.010	.014	0.25	0.35	
G	.012	---	0.30	---	
H	.002	.006	0.05	0.15	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics@25°C

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max Reverse Leakage Current		Marking Code
	V _Z @ I _{ZT}			Z _{TT} @ I _{ZT}		Z _{ZK} @ I _{ZK}		I _R @ V _R		
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	V	
BZT52B2V4S	2.4	2.35	2.45	85	5.0	600	1.00	100	1.0	W1
BZT52B2V7S	2.7	2.64	2.75	83	5.0	600	1.00	75	1.0	W2
BZT52B3V0S	3.0	2.94	3.06	95	5.0	600	1.00	50	1.0	W3
BZT52B3V3S	3.3	3.23	3.37	95	5.0	600	1.00	25	1.0	W4
BZT52B3V6S	3.6	3.52	3.67	95	5.0	600	1.00	15	1.0	W5
BZT52B3V9S	3.9	3.82	3.98	95	5.0	600	1.00	10	1.0	W6
BZT52B4V3S	4.3	4.21	4.39	95	5.0	600	1.00	5.0	1.0	W7
BZT52B4V7S	4.7	4.61	4.79	78	5.0	500	1.00	5.0	1.0	W8
BZT52B5V1S	5.1	5.00	5.20	60	5.0	480	1.00	0.1	0.8	W9
BZT52B5V6S	5.6	5.49	5.71	40	5.0	400	1.00	0.1	1.0	WA
BZT52B5V8S	5.8	5.68	5.92	30	5.0	300	1.00	0.1	1.5	85C
BZT52B6V2S	6.2	6.08	6.32	10	5.0	150	1.00	0.1	2.0	WB
BZT52B6V8S	6.8	6.66	6.94	8	5.0	80	1.00	0.1	3.0	WC
BZT52B7V5S	7.5	7.35	7.65	7	5.0	80	1.00	0.1	5.0	WD
BZT52B8V2S	8.2	8.04	8.36	7	5.0	80	1.00	0.1	6.0	WE
BZT52B8V7S	8.7	8.53	8.87	7	5.0	100	1.00	0.1	6.5	87C
BZT52B9V1S	9.1	8.92	9.28	10	5.0	100	1.00	0.1	7.0	WF
BZT52B10S	10	9.80	10.20	15	5.0	150	1.00	0.1	7.5	WG
BZT52B11S	11	10.78	11.22	20	5.0	150	1.00	0.1	8.5	WH
BZT52B12S	12	11.76	12.24	20	5.0	150	1.00	0.1	9.0	WI
BZT52B13S	13	12.74	13.26	25	5.0	170	1.00	0.1	10.0	WK
BZT52B14S	14	13.72	14.28	25	5.0	170	1.00	0.1	10.5	WJ
BZT52B15S	15	14.70	15.30	30	5.0	200	1.00	0.1	11.0	WL
BZT52B16S	16	15.68	16.32	40	5.0	200	1.00	0.1	12.0	WM
BZT52B17S	17	16.66	17.34	40	5.0	200	1.00	0.1	13.0	17C
BZT52B18S	18	17.64	18.36	50	5.0	225	1.00	0.1	14.0	WN
BZT52B20S	20	19.60	20.40	50	5.0	225	1.00	0.1	15.0	WO
BZT52B22S	22	21.56	22.44	55	5.0	250	1.00	0.1	17.0	WP
BZT52B24S	24	23.52	24.48	80	5.0	250	1.00	0.1	18.0	WR
BZT52B27S	27	26.46	27.54	80	5.0	300	1.00	0.1	20.0	WS
BZT52B28S	28	27.44	28.56	80	5.0	300	1.00	0.1	22.0	28C
BZT52B30S	30	29.40	30.60	80	5.0	300	1.00	0.1	22.5	WT
BZT52B33S	33	32.34	33.66	80	5.0	325	1.00	0.1	25.0	WU
BZT52B36S	36	35.28	36.72	90	5.0	350	1.00	0.1	27.0	WW
BZT52B39S	39	38.22	39.78	90	5.0	350	1.00	0.1	29.0	WX
BZT52B43S	43	42.14	43.86	100	5.0	375	1.00	0.1	32.0	WY
BZT52B47S	47	46.06	47.94	100	5.0	375	1.00	0.1	35.0	WZ
BZT52B51S	51	49.98	52.02	100	5.0	400	1.00	0.1	38.0	XA
BZT52B56S	56	54.88	57.12	135	2.5	1000	1.00	0.1	42.0	X2
BZT52B62S	62	60.76	63.24	150	2.5	1000	1.00	0.1	46.0	X3
BZT52B68S	68	66.64	69.36	200	2.5	1000	1.00	0.1	51.0	X4
BZT52B75S	75	73.50	76.50	250	2.5	1000	1.00	0.1	56.0	X5

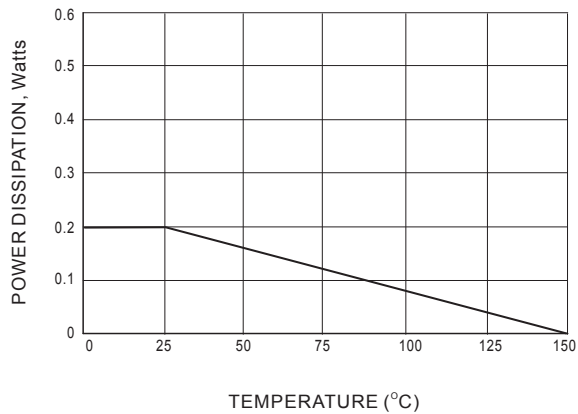


Fig.1 STEADY STATE POWER DERATING

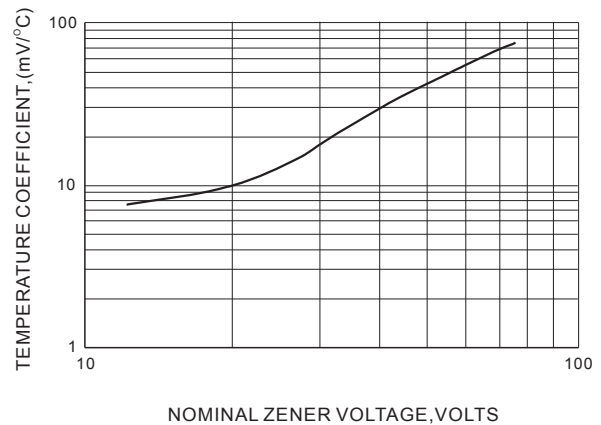


Fig.2 TEMPERATURE COEFFICIENTS

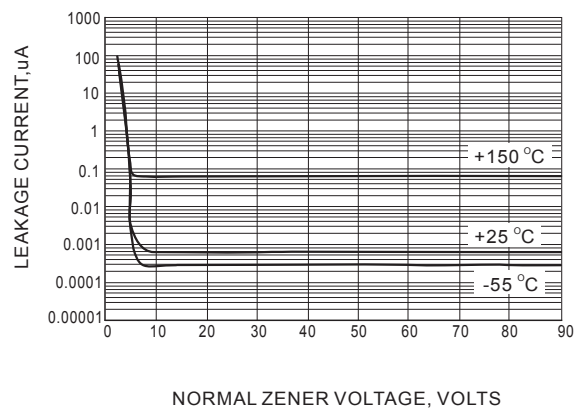


Fig.3 TYPICAL LEAKAGE CURRENT

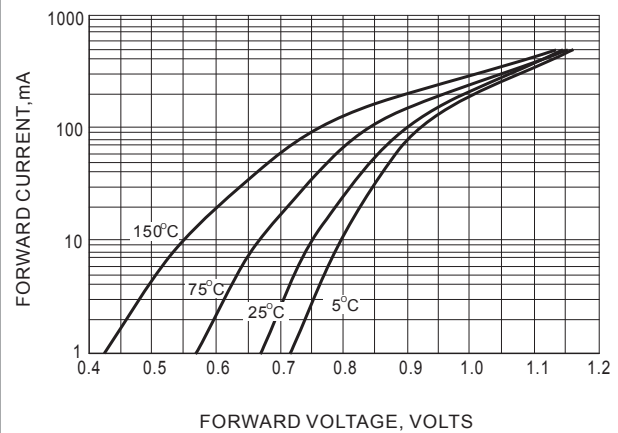


Fig.4 TYPICAL FORWARD VOLTAGE

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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