



Micro Commercial Components



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BZT52B2V4LS THRU BZT52B75LS

200 mW Zener Diode 2.4~75 Volts

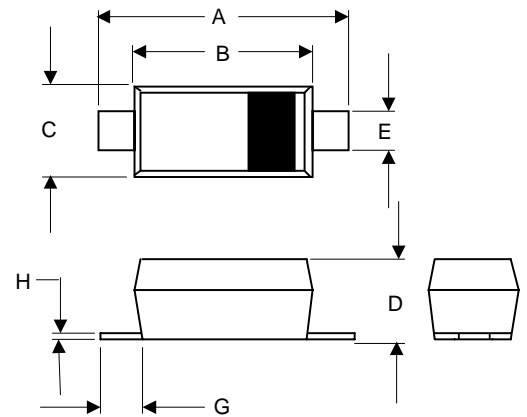
Features

- 200mW Power Dissipation
- General Purpose Medium Current
- 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"

Absolute Maximum Ratings

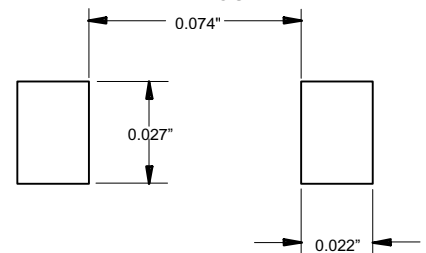
Symbol	Parameter	Rating	Unit
P _D	Power dissipation	200	mW
T _J	Junction Temperature	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

SOD-323FL



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.078	1.60	1.95	
C	.045	.053	1.15	1.35	
D	.024	.035	0.60	0.90	
E	.010	.016	0.25	0.40	
G	.016		0.40		
H	.002	.008	0.05	0.21	

SUGGESTED SOLDER PAD LAYOUT

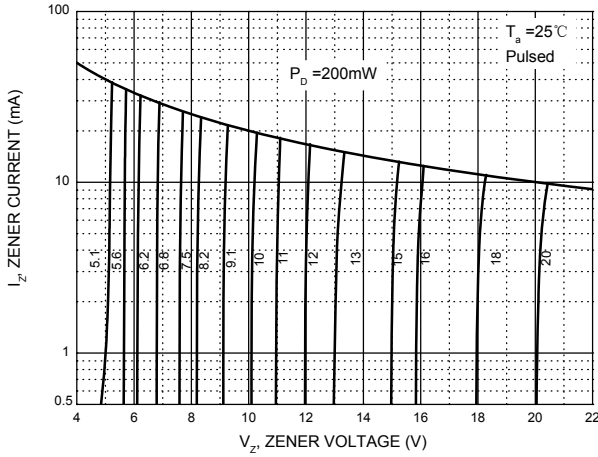


Electrical Characteristics@25°C

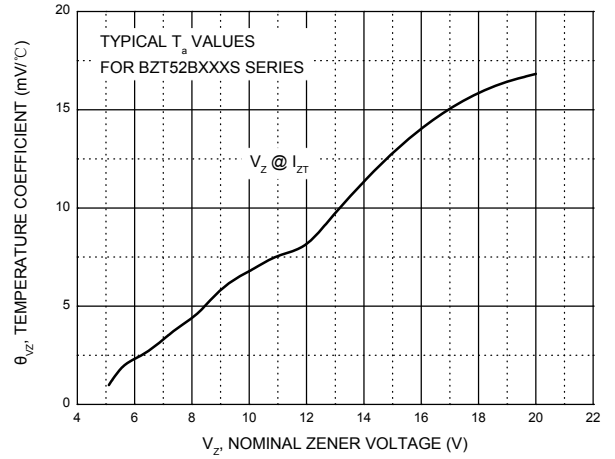
Type Number	Device Marking	Vz(V) ^{*1}			Zzt(Ω) max.	Iz (mA)	Zzk(Ω) max.	Izk (mA)	IR(μA) max.	VR(V)
		min.	typ.	max.						
BZT52B2V4LS	2.4	2.45	2.53	2.61	100	5	1000	0.5	120	1.0
BZT52B2V7LS	2.7	2.71	2.80	2.89	110	5	1000	0.5	100	1.0
BZT52B3V0LS	3.0	3.03	3.12	3.20	120	5	1000	0.5	50	1.0
BZT52B3V3LS	3.3	3.34	3.43	3.51	120	5	1000	0.5	20	1.0
BZT52B3V6LS	3.6	3.53	3.60	3.67	100	5	1000	1	10	1.0
BZT52B3V9LS	3.9	3.82	3.90	3.98	100	5	1000	1	5	1.0
BZT52B4V3LS	4.3	4.21	4.30	4.39	100	5	1000	1	5	1.0
BZT52B4V7LS	4.7	4.61	4.70	4.79	100	5	800	1	2	1.0
BZT52B5V6LS	5.6	5.49	5.60	5.71	60	5	400	1	1	1.0
BZT52B6V2LS	6.2	6.08	6.20	6.32	60	5	150	1	1	2.0
BZT52B6V8LS	6.8	6.66	6.80	6.94	40	5	80	1	0.5	3.0
BZT52B7V5LS	7.5	7.35	7.50	7.65	30	5	60	1	0.5	5.0
BZT52B8V2LS	8.2	8.04	8.20	8.36	30	5	60	1	0.5	6.1
BZT52B9V1LS	9.1	8.92	9.10	9.28	30	5	60	1	0.5	6.8
BZT52B10LS	10.	9.80	10.0	10.20	30	5	70	1	0.1	7.5
BZT52B11LS	11.	10.78	11.0	11.22	30	5	70	1	0.1	8.2
BZT52B12LS	12.	11.76	12.0	12.24	30	5	90	1	0.1	9.0
BZT52B13LS	13.	12.74	13.0	13.26	40	5	110	1	0.1	9.7
BZT52B15LS	15.	14.70	15.0	15.30	45	5	110	1	0.1	11
BZT52B16LS	16.	15.68	16.0	16.32	50	5	170	1	0.1	12
BZT52B18LS	18.	17.64	18.0	18.36	65	5	170	1	0.1	14
BZT52B20LS	20.	19.60	20.0	20.40	85	5	220	1	0.1	15
BZT52B22LS	22.	21.56	22.0	22.44	100	5	220	1	0.1	17
BZT52B24LS	24.	23.52	24.0	24.48	120	5	220	1	0.1	18
BZT52B27LS	27.	26.46	27.0	27.54	150	5	220	1	0.1	20
BZT52B30LS	30.	29.40	30.0	30.60	200	5	220	1	0.1	22
BZT52B33LS	33.	32.34	33.0	33.66	250	5	250	1	0.1	24
BZT52B36LS	36.	35.28	36.0	36.72	300	5	300	1	0.1	27
BZT52B39LS	39.	38.22	39.0	39.78	130	5	350	0.5	0.1	27.3
BZT52B43LS	43.	41.16	43.0	42.84	130	5	350	0.5	0.1	29.4
BZT52B47LS	47.	45.83	47.0	48.17	170	5	1000	0.25	0.1	36
BZT52B51LS	51.	49.73	51.0	52.27	180	5	1300	0.25	0.1	39
BZT52B56LS	56.	54.60	56.0	57.40	200	5	1400	0.25	0.1	43
BZT52B62LS	62.	60.45	62.0	63.55	225	5	1400	0.25	0.1	47
BZT52B68LS	68.	66.30	68.0	69.70	240	5	1600	0.25	0.1	52
BZT52B75LS	75.	73.13	75.0	76.87	265	5	1700	0.25	0.1	56

*1 Pulse width = 10 ms

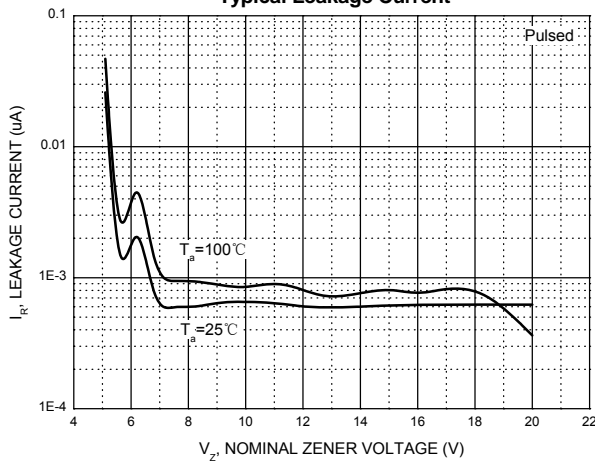
Zener Characteristics



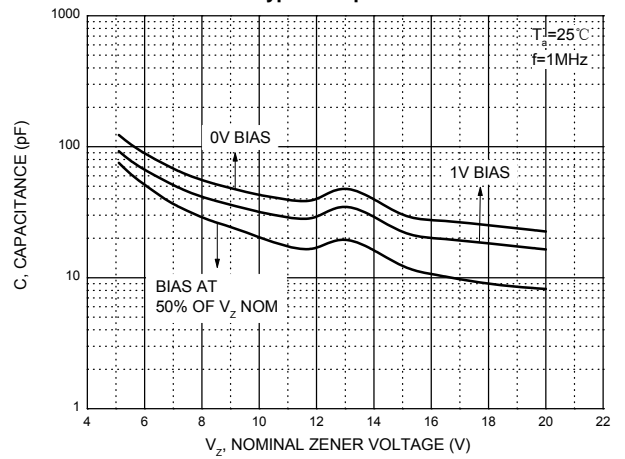
Temperature Coefficients



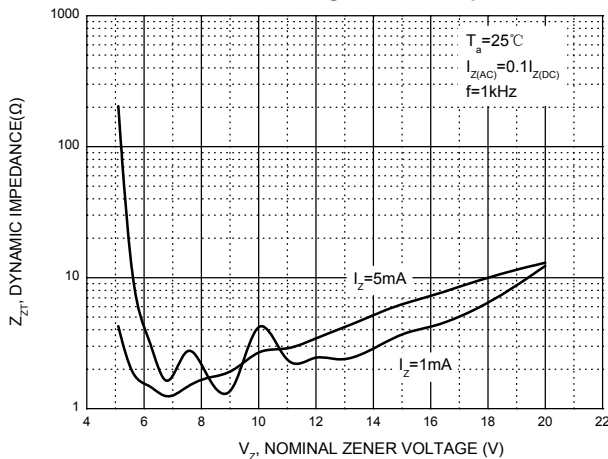
Typical Leakage Current



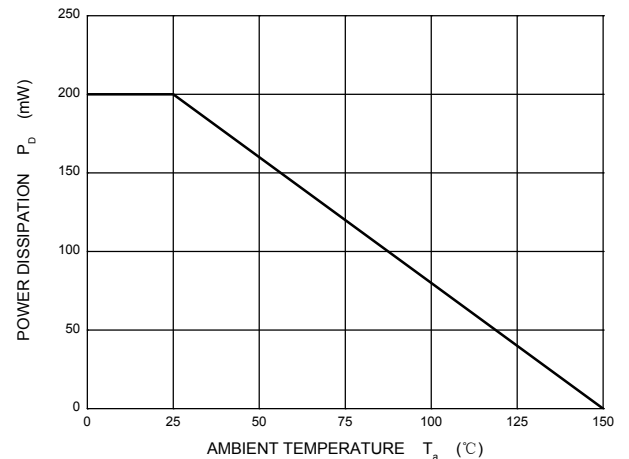
Typical Capacitance



Effect of Zener Voltage on Zener Impedance



Power Derating Curve





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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