

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

PART NUMBER	ZENER VOLTAGE			TEST CURRENT	REGULAR IMPEDANCE		TEST CURRENT	LEAKAGE CURRENT	
	$V_Z @ I_{ZT}$			I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	
	V			mA	Ω	Ω	mA	μA	V
	Min.	Nom.	Max.		Max.	Max.		Max.	
BZV55B2V4	2.35	2.4	2.45	5	85	600	1.0	50	1.0
BZV55B2V7	2.65	2.7	2.75	5	85	600	1.0	10	1.0
BZV55B3V0	2.94	3.0	3.06	5	85	600	1.0	4	1.0
BZV55B3V3	3.23	3.3	3.37	5	85	600	1.0	2	1.0
BZV55B3V6	3.53	3.6	3.67	5	85	600	1.0	2	1.0
BZV55B3V9	3.82	3.9	3.98	5	85	600	1.0	2	1.0
BZV55B4V3	4.21	4.3	4.39	5	75	600	1.0	1	1.0
BZV55B4V7	4.61	4.7	4.79	5	60	600	1.0	0.5	1.0
BZV55B5V1	5.00	5.1	5.20	5	35	550	1.0	0.1	1.0
BZV55B5V6	5.49	5.6	5.71	5	25	450	1.0	0.1	1.0
BZV55B6V2	6.08	6.2	6.32	5	10	200	1.0	0.1	2.0
BZV55B6V8	6.66	6.8	6.94	5	8	150	1.0	0.1	3.0
BZV55B7V5	7.35	7.5	7.65	5	7	50	1.0	0.1	5.0
BZV55B8V2	8.04	8.2	8.36	5	7	50	1.0	0.1	6.2
BZV55B9V1	8.92	9.1	9.28	5	10	50	1.0	0.1	6.8
BZV55B10	9.80	10	10.20	5	15	70	1.0	0.1	7.5
BZV55B11	10.78	11	11.22	5	20	70	1.0	0.1	8.2
BZV55B12	11.76	12	12.24	5	20	90	1.0	0.1	9.1
BZV55B13	12.74	13	13.26	5	26	110	1.0	0.1	10
BZV55B15	14.70	15	15.30	5	30	110	1.0	0.1	11
BZV55B16	15.68	16	16.32	5	40	170	1.0	0.1	12
BZV55B18	17.64	18	18.36	5	50	170	1.0	0.1	13
BZV55B20	19.60	20	20.40	5	55	220	1.0	0.1	15
BZV55B22	21.56	22	22.44	5	55	220	1.0	0.1	16
BZV55B24	23.52	24	24.48	5	80	220	1.0	0.1	18
BZV55B27	26.46	27	27.54	5	80	220	1.0	0.1	20
BZV55B30	29.40	30	30.60	5	80	220	1.0	0.1	22
BZV55B33	32.34	33	33.66	5	80	220	1.0	0.1	24
BZV55B36	35.28	36	36.72	5	80	220	1.0	0.1	27
BZV55B39	38.22	39	39.78	2.5	90	500	0.5	0.1	28
BZV55B43	42.14	43	43.86	2.5	90	600	0.5	0.1	32
BZV55B47	46.06	47	47.94	2.5	110	700	0.5	0.1	35
BZV55B51	49.98	51	52.02	2.5	125	700	0.5	0.1	38
BZV55B56	54.88	56	57.12	2.5	135	1000	0.5	0.1	42
BZV55B62	60.76	62	63.24	2.5	150	1000	0.5	0.1	47
BZV55B68	66.64	68	69.36	2.5	160	1000	0.5	0.1	51
BZV55B75	73.50	75	76.50	2.5	170	1000	0.5	0.1	56

Notes:

1. The zener voltage (V_Z) is tested under pulse condition of 30ms.
2. The device numbers listed have a standard tolerance on the nominal zener voltage of $\pm 2\%$.
3. For detailed information on price, availability and delivery of nominal zener voltages between the voltages shown and tighter voltage tolerances, contact your nearest Taiwan Semiconductor representative.
4. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an RMS value equal to 10% of the DC zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK} .

ORDERING INFORMATION		
PART NO. (Note 1)	PACKAGE	PACKING
BZV55Bxxx L0	MINI MELF	10K / 13" Reel
BZV55Bxxx L0G	MINI MELF	10K / 13" Reel
BZV55Bxxx L1	MINI MELF	2.5K / 7" Reel
BZV55Bxxx L1G	MINI MELF	2.5K / 7" Reel

Notes:

1. "xxx" defines voltage from 2.4V (BZV55B2V4) to 75V (BZV55B75)

CHARACTERISTICS CURVES

($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Power Dissipation VS. Ambient Temperature

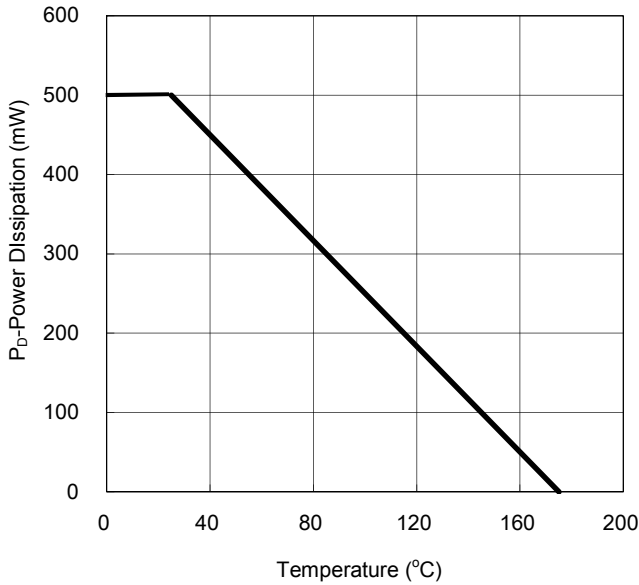


Fig. 2 Total Capacitance

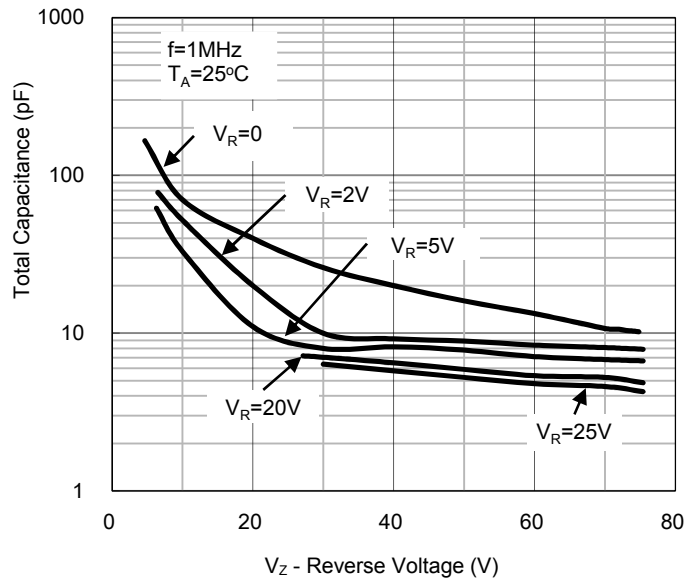


Fig. 3 Differential Impedance VS. Zener Voltage

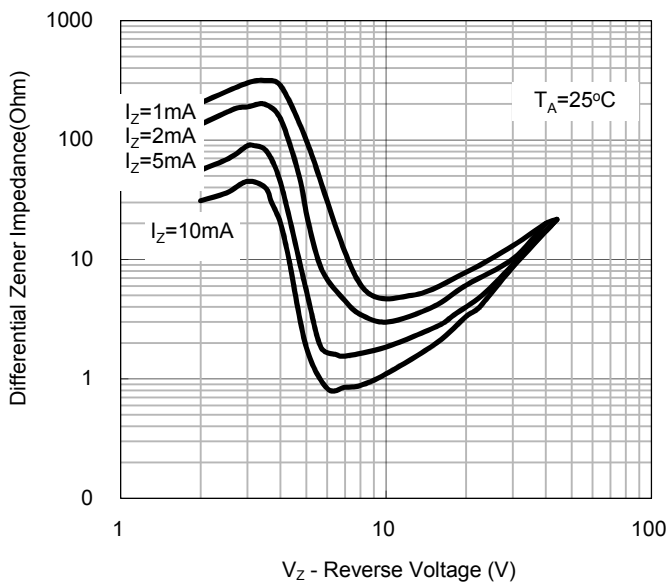
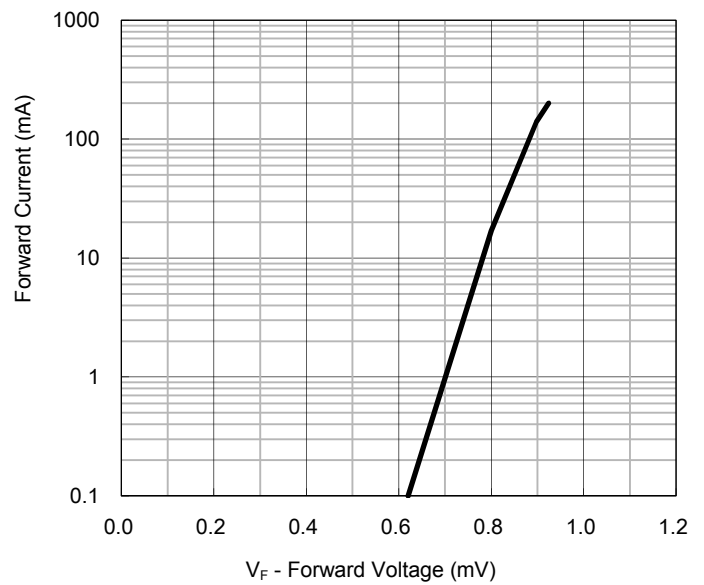
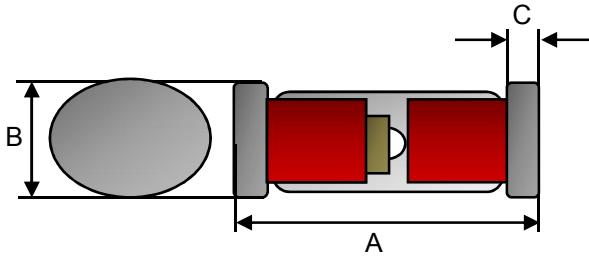


Fig. 4 Forward Current VS. Forward Voltage



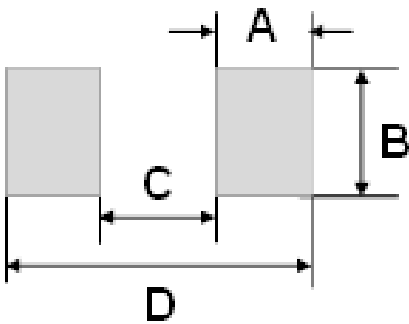
PACKAGE OUTLINE DIMENSION

Mini-MELF



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	3.30	3.70	0.130	0.146
B	1.40	1.60	0.055	0.063
C	0.20	0.50	0.008	0.020

SUGGEST PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
	Typ.	Typ.
A	1.25	0.049
B	2.00	0.079
C	2.50	0.098
D	5.00	0.197

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[BZV55B18](#) [BZV55B20](#) [BZV55B22](#) [BZV55B24](#) [BZV55B27](#) [BZV55B2V4](#) [BZV55B2V7](#) [BZV55B30](#) [BZV55B33](#)
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[L1G](#) [BZV55B10 L0G](#) [BZV55B24 L0G](#) [BZV55B51 L1G](#) [BZV55B47 L0G](#) [BZV55B3V0 L0](#) [BZV55B13 L1G](#)
[BZV55B4V7 L0G](#) [BZV55B36 L0G](#) [BZV55B3V0 L1G](#) [BZV55B5V1 L1G](#) [BZV55B3V3 L1G](#) [BZV55B15 L0](#) [BZV55B15](#)
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[BZV55B15 L0G](#) [BZV55B10 L0](#) [BZV55B27 L0G](#) [BZV55B6V2 L0G](#) [BZV55B4V3 L0G](#) [BZV55B3V6 L1G](#) [BZV55B39](#)
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