

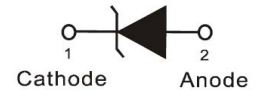
BZM55-Bxxx Series

Surface Mount Zener Diodes

Vz Range: 2.4V to 75V Power Dissipation: 500mW

Features

- Planar die construction
- 500mW power dissipation
- Ideally suited for automated assembly processes
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)



Package: MICRO-MELF

Mechanical Data

- Case: Molded glass MICRO-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.011 grams



RoHS
COMPLIANT

Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Voltage @ $I_F=200\text{mA}$	V_F	1.5	V
Power Dissipation @ $T_A=25^\circ\text{C}$	P_{TOT}	500	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	0.3	$^\circ\text{C}/\text{mW}$
Junction Temperature	T_J	175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-65 to +175	$^\circ\text{C}$

Note:

Valid provided that leads at a distance of 8mm from case are kept at ambient temperature.

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Electrical Characteristics

Part Number	Nominal Zener Voltage			Maximum Zener Impedance				Maximum Reverse Leakage Current	
	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	uA	V
BZM55-B2V4	2.4	2.35	2.45	85	5	600	1	50	1
BZM55-B2V7	2.7	2.65	2.75	85	5	600	1	10	1
BZM55-B3V0	3	2.94	3.06	85	5	600	1	4	1
BZM55-B3V3	3.3	3.23	3.37	85	5	600	1	2	1
BZM55-B3V6	3.6	3.53	3.67	85	5	600	1	2	1
BZM55-B3V9	3.9	3.82	3.98	85	5	600	1	2	1
BZM55-B4V3	4.3	4.21	4.39	75	5	600	1	1	1
BZM55-B4V7	4.7	4.61	4.79	60	5	600	1	0.5	1
BZM55-B5V1	5.1	5	5.2	35	5	550	1	0.1	1
BZM55-B5V6	5.6	5.49	5.71	25	5	450	1	0.1	1
BZM55-B6V2	6.2	6.08	6.32	10	5	200	1	0.1	2
BZM55-B6V8	6.8	6.66	6.94	8	5	150	1	0.1	3
BZM55-B7V5	7.5	7.35	7.65	7	5	50	1	0.1	5
BZM55-B8V2	8.2	8.04	8.36	7	5	50	1	0.1	6
BZM55-B9V1	9.1	8.92	9.28	10	5	50	1	0.1	7
BZM55-B10	10	9.8	10.2	15	5	70	1	0.1	7.5
BZM55-B11	11	10.78	11.22	20	5	70	1	0.1	8.5
BZM55-B12	12	11.76	12.24	20	5	90	1	0.1	9
BZM55-B13	13	12.74	13.26	26	5	110	1	0.1	10
BZM55-B15	15	14.7	15.3	30	5	110	1	0.1	11
BZM55-B16	16	15.68	16.32	40	5	170	1	0.1	12
BZM55-B18	18	17.64	18.36	50	5	170	1	0.1	14
BZM55-B20	20	19.6	20.4	55	5	220	1	0.1	15
BZM55-B22	22	21.56	22.44	55	5	220	1	0.1	17
BZM55-B24	24	23.5	24.5	80	5	220	1	0.1	18
BZM55-B27	27	26.5	27.5	80	5	220	1	0.1	20
BZM55-B30	30	29.4	30.6	80	5	220	1	0.1	22
BZM55-B33	33	32.3	33.7	80	5	220	1	0.1	24
BZM55-B36	36	35.3	36.7	80	5	220	1	0.1	27
BZM55-B39	39	38.2	39.8	90	2.5	500	1	0.1	30
BZM55-B43	43	42.1	43.9	90	2.5	600	1	0.1	33
BZM55-B47	47	46.1	47.9	110	2.5	700	1	0.1	36
BZM55-B51	51	50	52	125	2.5	700	0.5	0.1	39
BZM55-B56	56	54.9	57.1	135	2.5	1000	0.5	0.1	43
BZM55-B62	62	60.8	63.2	150	2.5	1000	0.5	0.1	47
BZM55-B68	68	66.6	69.4	200	2.5	1000	0.5	0.1	51
BZM55-B75	75	73.5	76.5	250	2.5	1500	0.5	0.1	56

Note:

Standard voltage tolerance is +5% and suffix "A" for +1%; suffix "B" for +2%; suffix "C" for +5%; suffix "D" for +20%.

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Typical Characteristics Curves

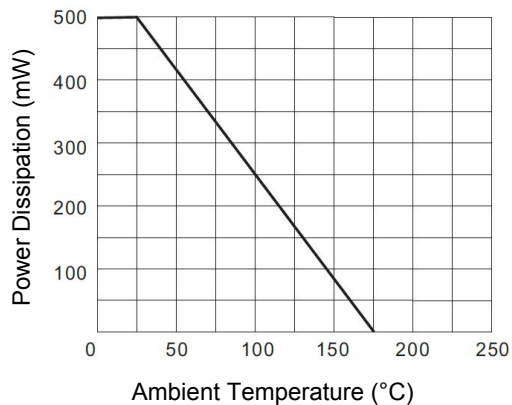


Figure 1. Power Derating Curve

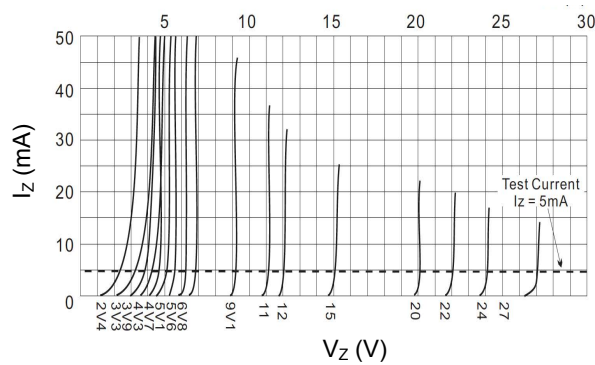


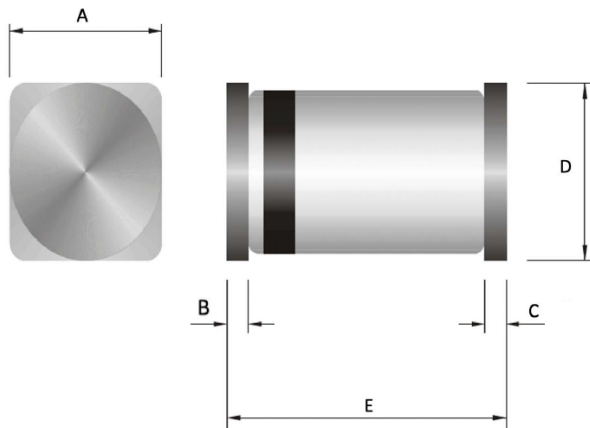
Figure 2. Breakdown Characteristics

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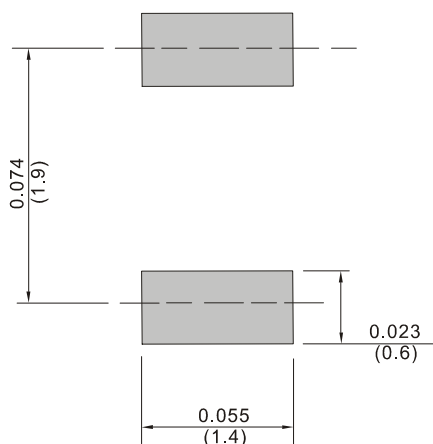
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Package Outline Dimensions (MICRO-MELF)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.100 TYP		0.043 TYP	
B	0.200 TYP		0.008 TYP	
C	0.200 TYP		0.008 TYP	
D	1.000 DIA	1.200 DIA	0.039 DIA	0.047 DIA
E	1.800	2.000	0.071	0.079

Recommended Pad Layout



Unit: Inch (mm)

Order Information

Device	Package	Reel Size	Quantity	HSF Status
BZM55-Bxxx	MICRO-MELF	7 inches	3,000pcs / Reel	RoHS Compliant