



**THE DATASHEET OF  
BZM55B3V3**



**SURFACE MOUNT ZENER DIODES**  
**VOLTAGE RANGE 2.4 to 75 Volts POWER 500 mWatt**

**FEATURES**

- \* Planar Die construction
- \* 500mW Power Dissipation
- \* Ideally Suited for Automated Assembly Processes
- \* Unmarked with polarity only

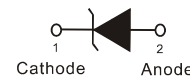
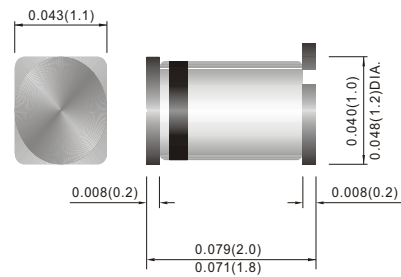
**MECHANICAL DATA**

- \* Case: Molded Glass MICRO-MELF
- \* Terminals: Solderable per MIL-STD-750, Method 2026

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.  
Resistive or inductive load.

**MICRO-MELF**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Parameter	Symbol	Value	Units
Power Dissipation at TA= 25°C	P <sub>TOT</sub>	500	mW
Junction Temperature	T <sub>J</sub>	-65 to +175	°C
Storage Temperature Range	T <sub>S</sub>	-65 to +175	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Units
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	--	--	0.3	°C/mW
Forward Voltage at I <sub>F</sub> = 200mA	V <sub>F</sub>	--	--	1.5	V

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

2022-06/62  
REV:A

Part Number	Nominal Zener Voltage			Max. Zener Impedance				Max. Reverse Leakage Current	
	V <sub>Z</sub> @ I <sub>ZT</sub>			Z <sub>ZT</sub> @ I <sub>ZT</sub>		Z <sub>ZK</sub> @ I <sub>ZK</sub>		I <sub>R</sub> @ V <sub>R</sub>	
	Nom. V	Min. V	Max. V	Ω	mA	Ω	mA	μA	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	5.00	5.20	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	9.80	10.20	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	14.70	15.30	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	19.60	20.40	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

Notes. STANDARD VOLTAGE TOLERANCE IS + 5% AND :

- SUFFIX " A " FOR + 1%
- SUFFIX " B " FOR + 2%
- SUFFIX " C " FOR + 5%
- SUFFIX " D " FOR + 20%

## RATING AND CHARACTERISTICS CURVES (BZM55B SERIES)

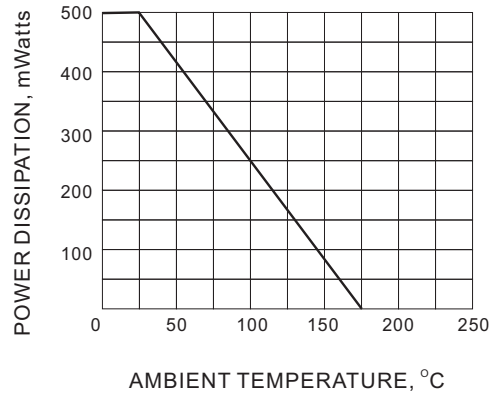


FIG. 1 POWER DERATING CURVE

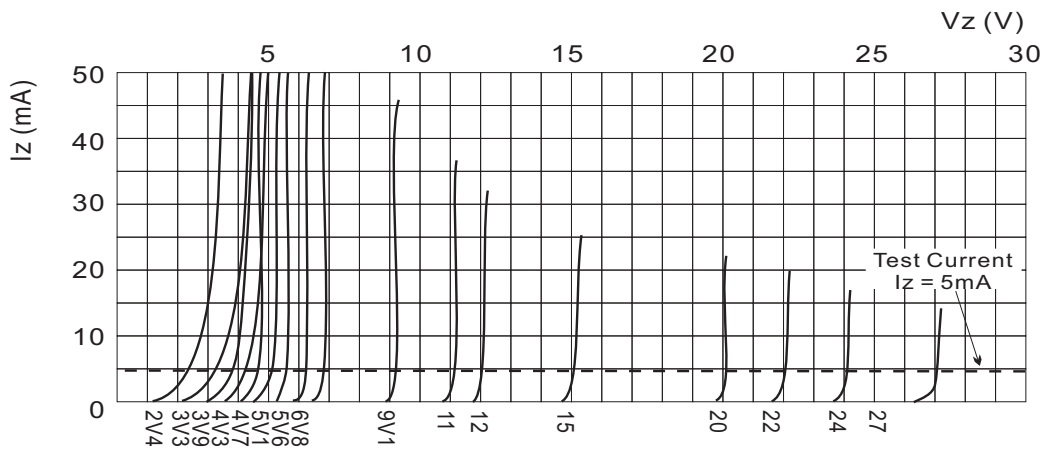
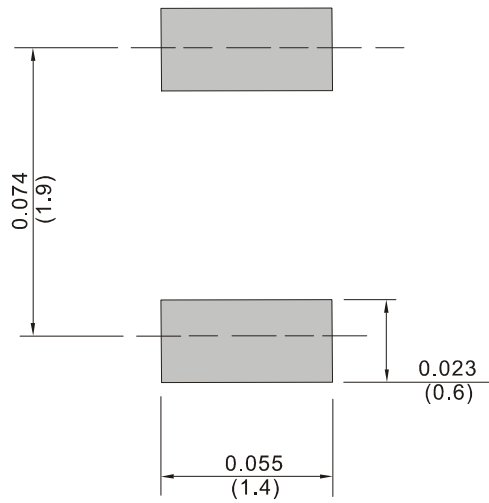


Fig.2 BREAKDOWN CHARACTERISTICS

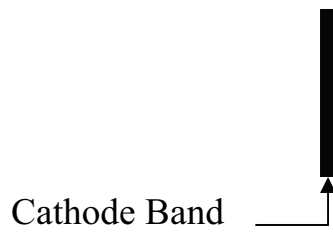
# Mounting Pad Layout

## MICRO-MELF



Unit : inch(mm)

## Marking Description



## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
MICRO-MELF	-T	2,500	---	---	---	178	390*205*310	100,000	7.10

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