

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

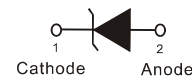
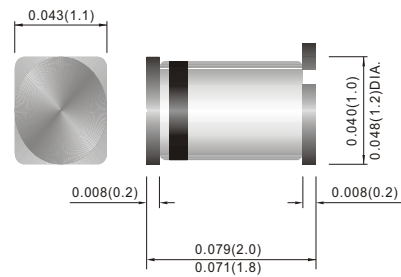
MECHANICAL DATA

- * 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 _{TOT}	500	mW
Junction Temperature	T _J	-65 to +175	°C
Storage Temperature Range	T _S	-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 _{θJA}	--	--	0.3	°C/mW
Forward Voltage at I _F = 200mA	V _F	--	--	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 _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	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)

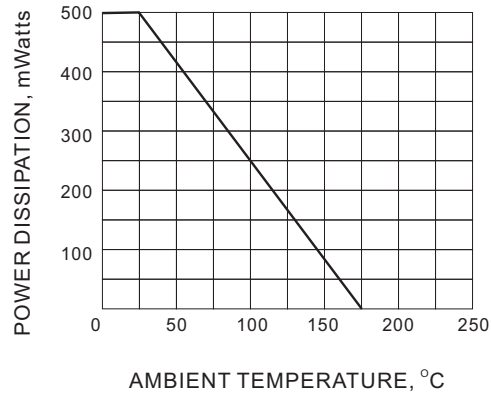


FIG. 1 POWER DERATING CURVE

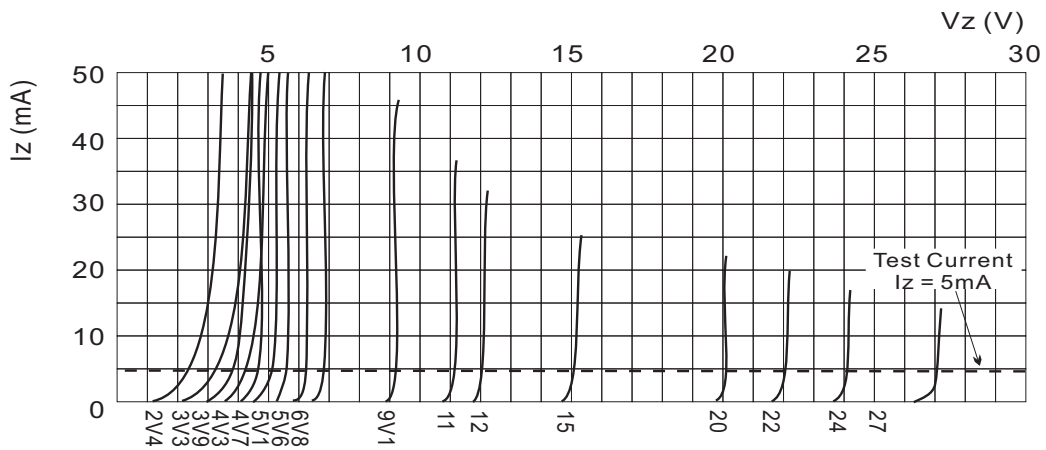
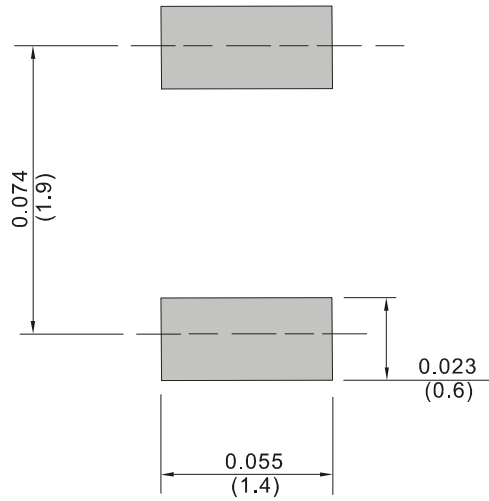


Fig.2 BREAKDOWN CHARACTERISTICS

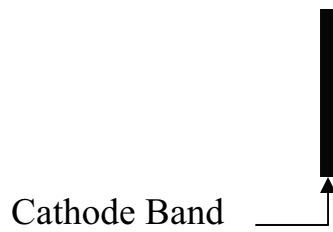
Mounting Pad Layout

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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