

## BZM55-C2V4 SERIES

### SURFACE MOUNT ZENER DIODES

**VOLTAGE** 2.4 to 100 Volts

**POWER** 500 mWatts

**MICRO-MELF**

Unit: Inch (mm)

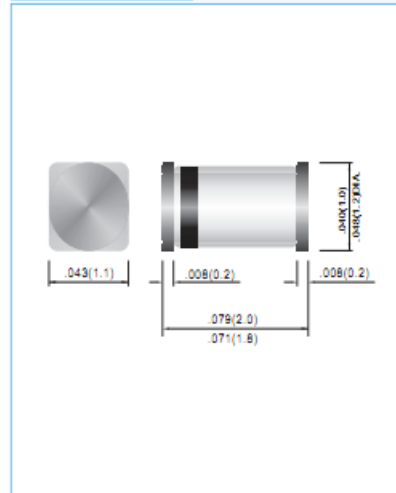
#### FEATURES

- Planar Die construction
- 500mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- In compliance with EU RoHS 2002/95/EC directives

#### MECHANICAL DATA

- Case: Molded Glass MICRO-MELF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram Below
- Approx. Weight: 0.011 grams
- Mounting Position: Any
- Packing information

T/R - 2.5K per 7" plastic Reel



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Power Dissipation at Tamb = 25 °C	P <sub>tot</sub>	500	mW
Junction Temperature	T <sub>J</sub>	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>JA</sub>	--	--	0.3	K/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.

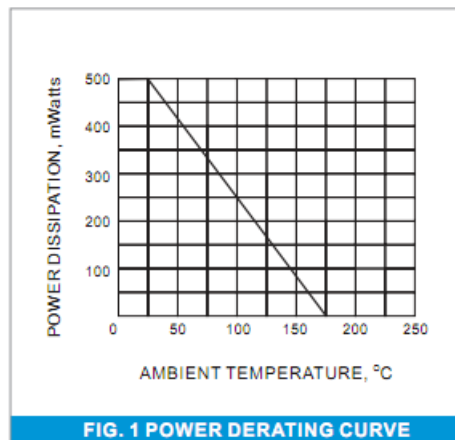
## BZM55-C2V4 SERIES

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-C2V4	2.4	2.28	2.56	85	5	600	1	50	1
BZM55-C2V7	2.7	2.5	2.9	85	5	600	1	10	1
BZM55-C3V0	3	2.8	3.2	85	5	600	1	4	1
BZM55-C3V3	3.3	3.1	3.5	85	5	600	1	2	1
BZM55-C3V6	3.6	3.4	3.8	85	5	600	1	2	1
BZM55-C3V9	3.9	3.7	4.1	85	5	600	1	2	1
BZM55-C4V3	4.3	4	4.6	75	5	600	1	1	1
BZM55-C4V7	4.7	4.4	5	60	5	600	1	0.5	1
BZM55-C5V1	5.1	4.8	5.4	35	5	550	1	0.1	1
BZM55-C5V6	5.6	5.2	6	25	5	450	1	0.1	1
BZM55-C6V2	6.2	5.8	6.6	10	5	200	1	0.1	2
BZM55-C6V8	6.8	6.4	7.2	8	5	150	1	0.1	3
BZM55-C7V5	7.5	7	7.9	7	5	50	1	0.1	5
BZM55-C8V2	8.2	7.7	8.7	7	5	50	1	0.1	6
BZM55-C9V1	9.1	8.5	9.6	10	5	50	1	0.1	7
BZM55-C10	10	9.4	10.6	15	5	70	1	0.1	7.5
BZM55-C11	11	10.4	11.6	20	5	70	1	0.1	8.5
BZM55-C12	12	11.4	12.7	20	5	90	1	0.1	9
BZM55-C13	13	12.4	14.1	26	5	110	1	0.1	10
BZM55-C15	15	13.8	15.6	30	5	110	1	0.1	11

### Notes.

- STANDARD VOLTAGE TOLERANCE IS  $\pm 5\%$  AND :
- SUFFIX " A " FOR  $\pm 1\%$
- SUFFIX " B " FOR  $\pm 2\%$
- SUFFIX " C " FOR  $\pm 5\%$
- SUFFIX " D " FOR  $\pm 20\%$

## RATING AND CHARACTERISTIC CURVES



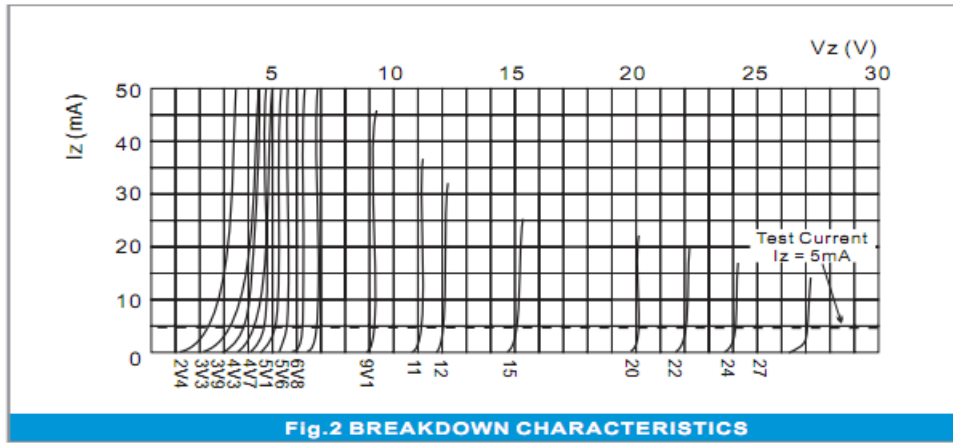
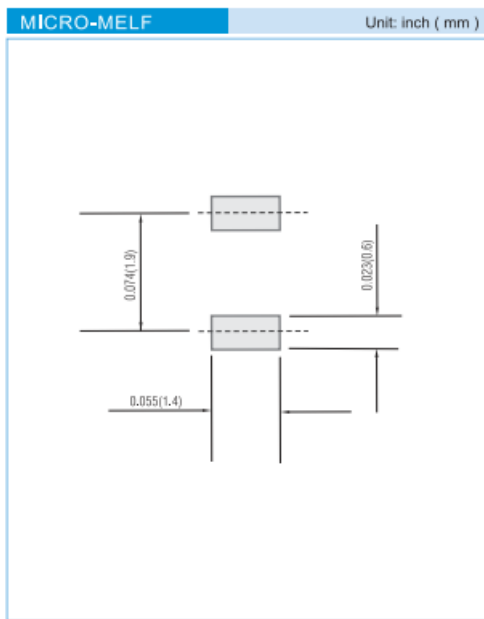


Fig.2 BREAKDOWN CHARACTERISTICS

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information

T/R - 10K per 13" plastic Reel

T/R - 2.5K per 7" plastic Reel

## LEGAL STATEMENT

### Copyright PanJit International, Inc 2008

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.