



# ZMM55-C2V4 THRU ZMM55-C75

Surface Mount Zener Diode

## Features

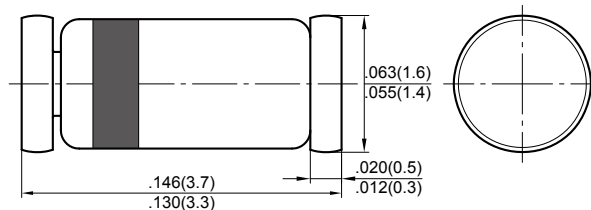
- ★ Planar Die construction
- ★ 500mW Power Dissipation
- ★ Ideally Suited for Automated Assembly Processes
- ★ Lead free in compliance with EU RoHS 2011/65/EU directive

## Mechanical Data

- ★ Case: Molded Glass, SOD-80 / MINI-MELF
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Packing information:  
T/R - 2.5K per 7" plastic Reel  
T/R - 10K per 13" plastic Reel

**Zener Voltage 2.4 to 75 V**  
**Power Dissipation 500 mW**

SOD-80 / MINI-MELF



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	$P_D$	500	mW
Maximum Instantaneous Forward Voltage @ $I_F=200\text{mA}$	$V_F$	1.5	V
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	0.3	°C/mW
Operating Junction Temperature Range	$T_J$	175	°C
Storage Temperature Range	$T_{STG}$	-65 to +175	°C

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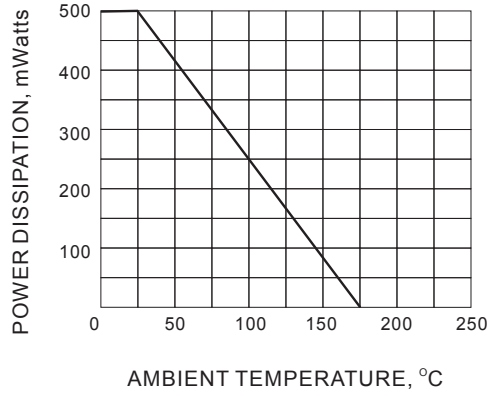
Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Part Number	Device Marking Code	Zener Voltage $V_Z@I_{ZT}$				Maximum Zener Impedance			Maximum Reverse Leakage Current $I_R@V_R$	
		Min (V)	Nom (V)	Max (V)	$I_{ZT}$ (mA)	$Z_{ZT}@I_{ZT}$ ( $\Omega$ )	$Z_{ZK}@I_{ZK}$ ( $\Omega$ )	$I_{ZK}$ (mA)	$I_R$ ( $\mu\text{A}$ )	$V_R$ (V)
ZMM55-C2V4	C2V4	2.28	2.4	2.56	5	85	600	1	50	1
ZMM55-C2V7	C2V7	2.5	2.7	2.9	5	85	600	1	10	1
ZMM55-C3V0	C3V0	2.8	3	3.2	5	85	600	1	4	1
ZMM55-C3V3	C3V3	3.1	3.3	3.5	5	85	600	1	2	1
ZMM55-C3V6	C3V6	3.4	3.6	3.8	5	85	600	1	2	1
ZMM55-C3V9	C3V9	3.7	3.9	4.1	5	85	600	1	2	1
ZMM55-C4V3	C4V3	4	4.3	4.6	5	75	600	1	1	1
ZMM55-C4V7	C4V7	4.4	4.7	5	5	60	600	1	0.5	1
ZMM55-C5V1	C5V1	4.8	5.1	5.4	5	35	550	1	0.1	1
ZMM55-C5V6	C5V6	5.2	5.6	6	5	25	450	1	0.1	1
ZMM55-C6V2	C6V2	5.8	6.2	6.6	5	10	200	1	0.1	2
ZMM55-C6V8	C6V8	6.4	6.8	7.2	5	8	150	1	0.1	3
ZMM55-C7V5	C7V5	7	7.5	7.9	5	7	50	1	0.1	5
ZMM55-C8V2	C8V2	7.7	8.2	8.7	5	7	50	1	0.1	6
ZMM55-C9V1	C9V1	8.5	9.1	9.6	5	10	50	1	0.1	7
ZMM55-C10	C10V	9.4	10	10.6	5	15	70	1	0.1	7.5
ZMM55-C11	C11V	10.4	11	11.6	5	20	70	1	0.1	8.5
ZMM55-C12	C12V	11.4	12	12.7	5	20	90	1	0.1	9
ZMM55-C13	C13V	12.4	13	14.1	5	26	110	1	0.1	10
ZMM55-C15	C15V	13.8	15	15.6	5	30	110	1	0.1	11
ZMM55-C16	C16V	15.3	16	17.1	5	40	170	1	0.1	12
ZMM55-C18	C18V	16.8	18	19.1	5	50	170	1	0.1	14
ZMM55-C20	C20V	18.8	20	21.2	5	55	220	1	0.1	15
ZMM55-C22	C22V	20.8	22	23.3	5	55	220	1	0.1	17
ZMM55-C24	C24V	22.8	24	25.6	5	80	220	1	0.1	18
ZMM55-C27	C27V	25.1	27	28.9	5	80	220	1	0.1	20
ZMM55-C30	C30V	28	30	32	5	80	220	1	0.1	22
ZMM55-C33	C33V	31	33	35	5	80	220	1	0.1	24
ZMM55-C36	C36V	34	36	38	5	80	220	1	0.1	27
ZMM55-C39	C39V	37	39	41	2.5	90	500	1	0.1	30
ZMM55-C43	C43V	40	43	46	2.5	90	600	1	0.1	33
ZMM55-C47	C47V	44	47	50	2.5	110	700	1	0.1	36
ZMM55-C51	C51V	48	51	54	2.5	125	700	0.5	0.1	39
ZMM55-C56	C56V	52	56	60	2.5	135	1000	0.5	0.1	43
ZMM55-C62	C62V	58	62	66	2.5	150	1000	0.5	0.1	47
ZMM55-C68	C68V	64	68	72	2.5	200	1000	0.5	0.1	51
ZMM55-C75	C75V	70	75	79	2.5	250	1500	0.5	0.1	56

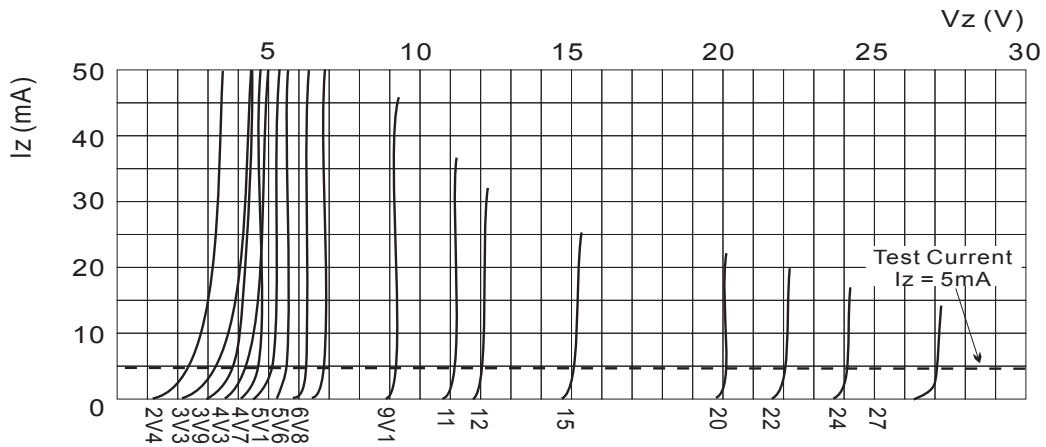
Notes: Standard voltage tolerance is  $\pm 5\%$  and :

- Suffix " A" for  $\pm 1\%$
- Suffix " B" for  $\pm 2\%$
- Suffix " C" for  $\pm 5\%$
- Suffix " D" for  $\pm 20\%$

# RATINGS AND CHARACTERISTICS CURVES ZMM55-C2V4 THRU ZMM55-C75



**FIG. 1 POWER DERATING CURVE**



**Fig.2 BREAKDOWN CHARACTERISTICS**