

ZMM2.4 - ZMM75

V_Z : 2.4 to 75V

P_D : 500mW

FEATURES :

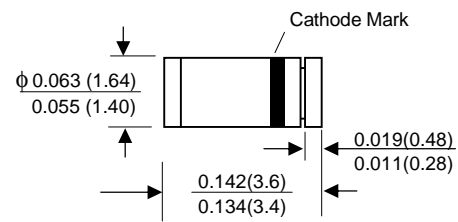
- Silicon planar zener diodes
- In MiniMELF case especially for automatic insertion
- Standard zener voltage tolerance is $\pm 5\%$
- Other zener voltages are available upon request.
- These diodes are also available in DO-35 case with the type designation ZPD2.7 ... ZPD51
- **Pb / RoHS Free**

MECHANICAL DATA :

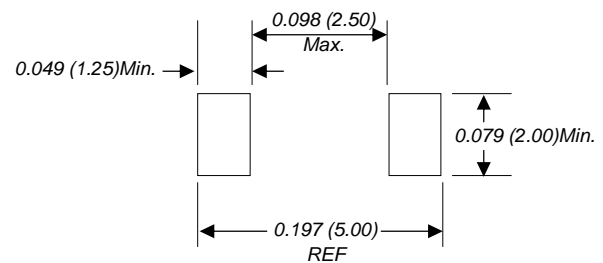
- * Case : MiniMELF Glass Case (SOD-80C)
- * Weight : 0.05 gram (approximately)

ZENER DIODES

MiniMELF (SOD-80C)



Mounting Pad Layout



Maximum Ratings and Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	Unit
Zener Current see Table "Characteristics"			
Maximum Forward Voltage at $I_F = 200 \text{ mA}$.	V_F	1.25	V
Power Dissipation at $T_{\text{flange}} = 75^\circ\text{C}$	P_D	500 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300 ⁽¹⁾	$^\circ\text{C/W}$
Junction temperature	T_J	175	$^\circ\text{C}$
Storage temperature range	T_S	-65 to + 150	$^\circ\text{C}$

Note: (1) Valid provided that electrodes are kept at ambient temperature

ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified

	Zener Voltage		Dynamic Resistance		Maximum Reverse Leakage Current		Temp. coefficient of Zener Voltage		Admissible Zener Current
	Nom ¹⁾ (V)	I _{ZT} (mA)	at I _Z =5mA f = 1 kHz r _{zj} (W)	at I _Z =1mA f = 1 kHz r _{zj} (W)	I _R (mA)	at V _R (V)	min.	max.	I _Z (mA)
ZMM2.4	2.4	5	< 100	< 600	50	0.8	-10	-5	175
ZMM2.7	2.7	5	6.5 (< 8)	< 500	20	0.8	-9	-4	160
ZMM3.0	3.0	5	75 (< 83)	< 500	10	0.8	-9	-3	140
ZMM3.3	3.3	5	80 (< 95)	< 500	6.0	0.8	-8	-3	130
ZMM3.6	3.6	5	80 (< 95)	< 500	6.0	0.8	-8	-3	120
ZMM3.9	3.9	5	80 (< 95)	< 500	1.6	0.8	-7	-3	110
ZMM4.3	4.3	5	80 (< 95)	< 500	1.0	0.8	-6	-1	100
ZMM4.7	4.7	5	70 (< 78)	< 500	0.1	0.8	-5	+2	90
ZMM5.1	5.1	5	30 (< 60)	< 480	0.1	0.8	-3	+4	80
ZMM5.6	5.6	5	10 (< 40)	< 400	0.1	1	-2	+6	70
ZMM6.2	6.2	5	4.8 (< 10)	< 200	0.1	2	-1	+7	64
ZMM6.8	6.8	5	4.5 (< 8)	< 150	0.1	3	+2	+7	58
ZMM7.5	7.5	5	4 (< 7)	< 50	0.1	5	+3	+7	53
ZMM8.2	8.2	5	4.5 (< 7)	< 50	0.1	6	+4	+7	47
ZMM9.1	9.1	5	4.8 (< 10)	< 50	0.1	7	+5	+8	43
ZMM10	10	5	5.2 (< 15)	< 70	0.1	7.5	+5	+8	40
ZMM11	11	5	6 (< 20)	< 70	0.1	8.5	+5	+9	36
ZMM12	12	5	7 (< 20)	< 90	0.1	9	+6	+9	32
ZMM13	13	5	9 (< 25)	< 110	0.1	10	+7	+9	29
ZMM15	15	5	11 (< 30)	< 110	0.1	11	+7	+9	27
ZMM16	16	5	13 (< 40)	< 170	0.1	12	+8	+9.5	24
ZMM18	18	5	18 (< 50)	< 170	0.1	14	+8	+9.5	21
ZMM20	20	5	20 (< 50)	< 220	0.1	15	+8	+10	20
ZMM22	22	5	25 (< 55)	< 220	0.1	17	+8	+10	18
ZMM24	24	5	28 (< 80)	< 220	0.1	18	+8	+10	16
ZMM27	27	5	30 (< 80)	< 250	0.1	20	+8	+10	14
ZMM30	30	5	35 (< 80)	< 250	0.1	22.5	+8	+10	13
ZMM33	33	55(< 80)<	< 18	5.1	+8	+10	13	
ZMM33	33	5	25 50)	< 170	5.1	+8	+10	13	3
ZMM33	33 (< 50)	< 0.1	22	+8	+10	13			

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ZMM33

33023 Tc 46+335 Tc ()Tj0.077-0.1085Tc ()Tj0.437.524 ()Tj0.023 Tc (50)

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ZMM33

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023 Tc