

ZMM2.4 - ZMM75

V_Z : 2.4 to 75V

P_D : 500mW

FEATURES :

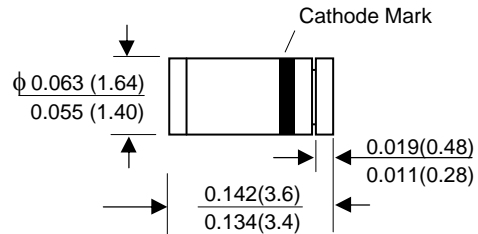
- * Silicon planar zener diodes
- * In MiniMELF case especially for automatic insertion
- * Standard zener voltage tolerance is $\pm 5\%$
- * Other zener voltages are available upon request.
- * These diodes are also available in DO-35 case with the type designation ZPD2.7 ... ZPD75
- * **Pb / RoHS Free**

MECHANICAL DATA :

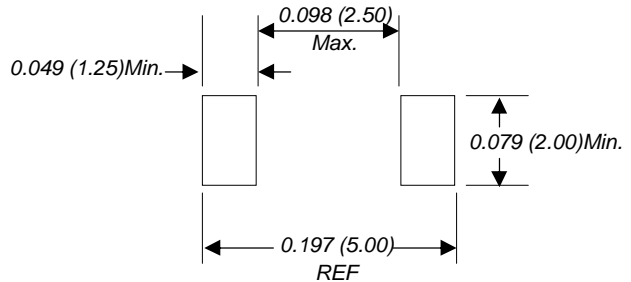
- * Case : MiniMELF Glass Case (SOD-80C)
- * Weight : 0.05 gram (approximately)

ZENER DIODES

MiniMELF (SOD-80C)



Mounting Pad Layout



Dimensions in inches and (millimeters)

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 $I_F = 200$ mA.	V_F	1.25	V
Power Dissipation at $T_{flange} = 75^\circ\text{C}$	P_D	500 ⁽¹⁾	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	300 ⁽¹⁾	$^\circ\text{C}/\text{W}$
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

Type	Zener Voltage		Dynamic Resistance		Maximum Reverse Leakage Current		Temp. coefficient of Zener Voltage		Admissible Zener Current
	$V_Z @ I_{ZT}$		at $I_Z=5mA$ $f = 1 kHz$	at $I_Z=1mA$ $f = 1 kHz$	I_R	at V_R	$\alpha_{VZ}(10^{-4} / ^\circ C)$		I_Z
	Nom ¹⁾ (V)	I_{ZT} (mA)	$r_{zj} (\Omega)$	$r_{zj} (\Omega)$	(μA)	(V)	min.	max.	(mA)
ZMM2.4	2.4	5	< 100	< 600	50	0.8	-10	-5	175
ZMM2.7	2.7	5	75 (< 83)	< 500	20	0.8	-9	-4	160
ZMM3.0	3.0	5	80 (< 95)	< 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	5	40 (< 80)	< 250	0.1	25	+8	+10	12
ZMM36	36	5	40 (< 90)	< 250	0.1	27	+8	+10	11
ZMM39	39	5	50 (< 90)	< 300	0.1	29	+10	+12	10
ZMM43	43	5	60 (< 100)	< 700	0.1	32	+10	+12	9.2
ZMM47	47	5	70 (< 100)	< 750	0.1	35	+10	+12	8.5
ZMM51	51	5	70 (< 100)	< 750	0.1	38	+10	+12	7.8
ZMM56	56	2.5	< 135 ⁽³⁾	< 1000 ⁽⁴⁾	0.1	42	+10 (typ.)		7.1
ZMM62	62	2.5	< 150 ⁽³⁾	< 1000 ⁽⁴⁾	0.1	47	+ 10 (typ.)		6.4
ZMM68	68	2.5	< 200 ⁽³⁾	< 1000 ⁽⁴⁾	0.1	51	+ 10 (typ.)		5.8
ZMM75	75	2.5	< 250 ⁽³⁾	<1500 ⁽⁴⁾	0.1	55	+ 10 (typ.)		5.3

Notes:

- (1) Tested with pulses $t_p = 5 ms$
- (2) Valid Provided that leads are kept at ambient temperature.
- (3) at $I_Z = 2.5mA$
- (4) at $I_Z = 0.5mA$

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Zener Diodes](#) category:

Click to view products by [EIC Semiconductor](#) manufacturer:

Other Similar products are found below :

[RKZ13B2KG#P1](#) [RKZ5.6B2KJ#R1](#) [DL5234B](#) [EDZTE6113B](#) [1N4682](#) [1N4691](#) [1N4693](#) [1N4732A](#) [1N4736A](#) [1N4750A](#) [1N4759ARL](#)
[1N5241B](#) [1N5365B](#) [1N5369B](#) [1N747A](#) [1N959B](#) [1N964B](#) [1N966B](#) [1N968B](#) [1N972B](#) [NTE5121A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#)
[NTE5164A](#) [JANS1N4974US](#) [1N4692](#) [1N4700](#) [1N4702](#) [1N4704](#) [1N4711](#) [1N4714](#) [1N4737A](#) [1N4745ARL](#) [1N4752A](#) [1N4752ARL](#)
[1N4760ARL](#) [1N5221B](#) [1N5231B-TR](#) [1N5236B](#) [1N5241BTR](#) [1N5242BTR](#) [1N5350B](#) [1N5352B](#) [1N961BRR1](#) [1N964BRL](#) [RKZ5.1BKU#P6](#)
[3SMAJ5946B-TP](#) [3SMAJ5950B-TP](#) [3SMBJ5925B-TP](#)