



MM3Z2V0 THRU MM3Z75

Silicon Planar Zener Diodes

Features

- Total power dissipation: max. 300 mW
- Wide zener reverse voltage range 2.0V to 75V
- Small plastic package suitable for surface mounted design
- Tolerance approximately $\pm 5\%$

Mechanical Data

- Case: SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 5.48mg / 0.00019oz

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Power Dissipation	P_{tot}	300	mW
Forward Voltage at $I_F=10\text{mA}$	V_F	0.9	V
Typical Thermal Resistance Junction To Ambient ⁽¹⁾	$R_{\theta JA}$	417	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	$-55 \sim +150$	$^\circ\text{C}$

Note:(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper areas pads.

Typical Characteristics

Fig.1 Maximum Continuous Power Derating

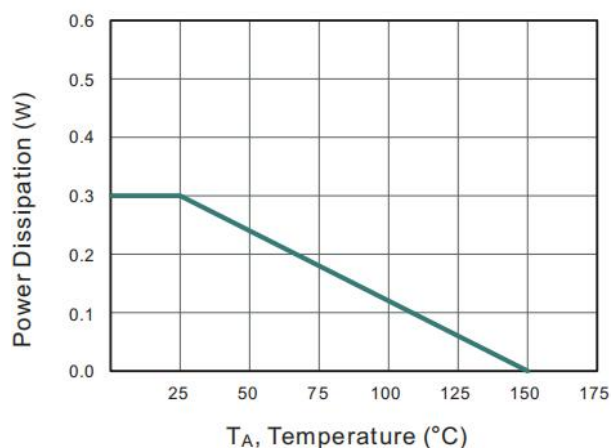
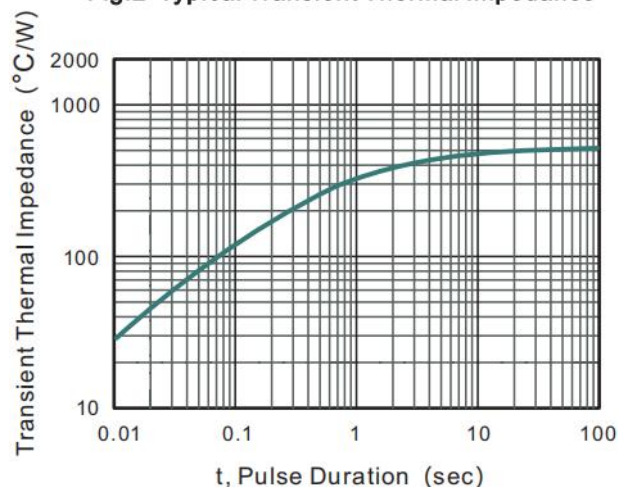


Fig.2 Typical Transient Thermal Impedance





MM3Z2V0 THRU MM3Z75

MM3Z2V0~ MM3Z75

Characteristics (T_A=25°C)

Type	Marking	Zener Voltage Range ¹⁾				Dynamic Impedance	Reverse Leakage Current	
		V _{ZT} (at I _{ZT})			I _{ZT}	Z _{ZT} (at I _{ZT})	I _R	at V _R
		Min(V)	Nom(V)	Max(V)	(mA)	Max(Ω)	Max(uA)	(V)
MM3Z2V0	WY	1.8	2.0	2.15	5	100	120	0.5
MM3Z2V2	WZ	2.08	2.2	2.33	5	100	120	0.7
MM3Z2V4	00	2.28	2.4	2.56	5	100	120	1
MM3Z2V7	01	2.5	2.7	2.9	5	110	120	1
MM3Z3V0	02	2.8	3.0	3.2	5	120	50	1
MM3Z3V3	05	3.1	3.3	3.5	5	130	20	1
MM3Z3V6	06	3.4	3.6	3.8	5	130	10	1
MM3Z3V9	07	3.7	3.9	4.1	5	130	5	1
MM3Z4V3	08	4	4.3	4.6	5	130	5	1
MM3Z4V7	09	4.4	4.7	5	5	130	2	1
MM3Z5V1	0A	4.8	5.1	5.4	5	130	2	1.5
MM3Z5V6	0C	5.2	5.6	6	5	80	1	2.5
MM3Z6V2	0E	5.8	6.2	6.6	5	50	1	3
MM3Z6V8	0F	6.4	6.8	7.2	5	30	0.5	3.5
MM3Z7V5	0G	7	7.5	7.9	5	30	0.5	4
MM3Z8V2	0H	7.7	8.2	8.7	5	30	0.5	5
MM3Z9V1	0K	8.5	9.1	9.6	5	30	0.5	6
MM3Z10	0L	9.4	10	10.6	5	30	0.1	7
MM3Z11	0M	10.4	11	11.6	5	30	0.1	8
MM3Z12	0N	11.4	12	12.7	5	35	0.1	9
MM3Z13	0P	12.4	13	14.1	5	35	0.1	10
MM3Z15	0T	13.8	15	15.6	5	40	0.1	11
MM3Z16	0U	15.3	16	17.1	5	40	0.1	12



MM3Z2V0 THRU MM3Z75

MM3Z18	0W	16.8	18	19.1	5	45	0.1	13
MM3Z20	0Z	18.8	20	21.2	5	50	0.1	15
MM3Z22	10	20.8	22	23.3	5	55	0.1	17
MM3Z24	11	22.8	24	25.6	5	60	0.1	19
MM3Z27	12	25.1	27	28.9	2	70	0.1	21
MM3Z30	14	28	30	32	2	80	0.1	23
MM3Z33	18	31	33	35	2	80	0.1	25
MM3Z36	19	34	36	38	2	90	0.1	27
MM3Z39	20	37	39	41	2	100	0.1	30
MM3Z43	21	40	43	46	2	130	0.1	33
MM3Z47	1A	44	47	50	2	150	0.1	36
MM3Z51	1C	48	51	54	2	180	0.1	39
MM3Z56	1D	52	56	60	2	200	0.1	43
MM3Z62	1E	58	62	66	2	215	0.1	47
MM3Z68	1F	64	68	72	2	240	0.1	52
MM3Z75	1G	70	75	79	2	265	0.1	56

Note:(1)V_{VT} is tested with pulses (20ms).

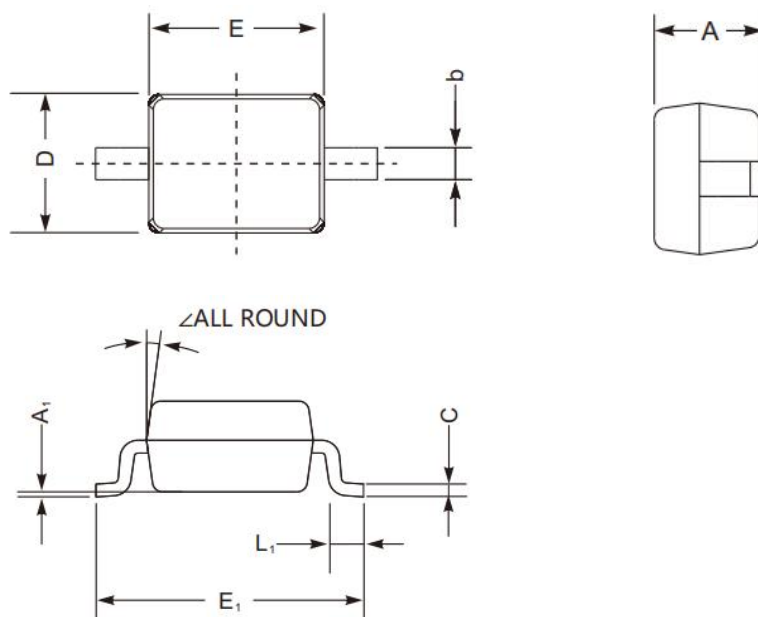


MM3Z2V0 THRU MM3Z75

Package Information

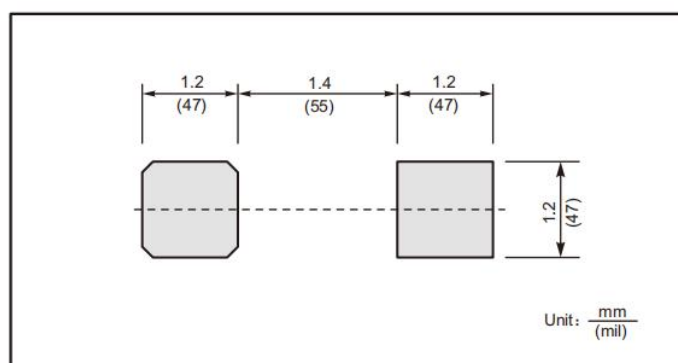
SOD-323

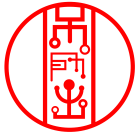
Dimensions in mm



Unit		A	C	D	E	b	L1	A1		∠
mm	max	1.1	0.15	1.4	1.8	2.75	0.4	0.45	0.2	9°
	min	0.8	0.08	1.2	1.4	2.55	0.25	0.2		
mil	max	43	5.9	55	70	108	16	16	8	
	min	32	3.1	47	55	100	9.8	7.9		

The recommended mounting pad size





MM3Z2V0 THRU MM3Z75

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