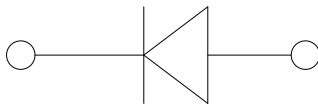


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level
- Zener Voltage 2.7V~39V
- V_Z -tolerance $\pm 5\%$



Mechanical Data

- **Package:** SOD323G
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Power Dissipation**	P_D	mW	200
Storage Temperature Range	T_{stg}	$^\circ\text{C}$	-55~+150
Maximum Junction Temperature	T_J	$^\circ\text{C}$	-55~+150
Maximum Forward Voltage@ $I_F=10\text{mA}^*$	V_F	V	0.9
Forward Current	I_F	mA	100
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	$^\circ\text{C}/\text{W}$	625

*Tested with pulses, $T_P < 1.0\text{ms}$

**Device mounted on ceramic PCBs; $7.6\text{mm} \times 9.4\text{mm} \times 0.87\text{mm}$ with pad areas 25mm^2 .

■Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MM3Z2V7CW THRU MM3Z39VCW	F2	Approximate 0.009	3000	30000	120000	7" reel



MM3Z2V7CW THRU MM3Z39VCW

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

TypeNumber	Device Marking	V _z (V) ^{*1}			Z _{zt} (Ω) ^{*2}		Z _{zk} (Ω) ^{*2}		I _R (μA)@V _R	
		min.	typ.	max.	I _z (mA)	max.	I _{zk} (mA)	max.	uA	V _R (V)
MM3Z2V7CW	W1	2.5	2.7	2.9	5	85	1.0	600	75	1.0
MM3Z3V0CW	W2	2.8	3.0	3.2	5	95	1.0	600	50	1.0
MM3Z3V3CW	W3	3.1	3.3	3.5	5	95	1.0	600	25	1.0
MM3Z3V6CW	W4	3.4	3.6	3.8	5	95	1.0	600	15	1.0
MM3Z3V9CW	W5	3.7	3.9	4.1	5	95	1.0	600	10	1.0
MM3Z4V3CW	W6	4.0	4.3	4.6	5	95	1.0	600	5	1.0
MM3Z4V7CW	W7	4.4	4.7	5.0	5	78	1.0	500	5	2.0
MM3Z5V1CW	W8	4.8	5.1	5.4	5	60	1.0	480	0.1	0.8
MM3Z5V6CW	W9	5.2	5.6	6.0	5	40	1.0	400	0.1	1.0
MM3Z6V2CW	WA	5.2	6.2	6.6	5	10	1.0	150	0.1	2.0
MM3Z6V8CW	WB	6.4	6.8	7.2	5	8	1.0	80	0.1	3.0
MM3Z7V5CW	WC	7.0	7.5	7.9	5	7	1.0	80	0.1	5.0
MM3Z8V2CW	WD	7.7	8.2	8.7	5	7	1.0	80	0.1	6.0
MM3Z9V1CW	WE	8.5	9.1	9.6	5	10	1.0	100	0.1	7.0
MM3Z10VCW	WF	9.4	10	10.6	5	15	1.0	150	0.1	7.5
MM3Z11VCW	WG	10.4	11	11.6	5	20	1.0	150	0.1	8.5
MM3Z12VCW	WH	11.4	12	12.7	5	20	1.0	150	0.1	9.0
MM3Z13VCW	WI	12.4	13	14.1	5	25	1.0	170	0.1	10.0
MM3Z15VCW	WJ	13.8	15	15.6	5	30	1.0	200	0.1	11.0
MM3Z16VCW	WK	15.3	16	17.1	5	40	1.0	200	0.1	12
MM3Z18VCW	WL	16.8	18	19.1	5	50	1.0	225	0.1	14.0
MM3Z20VCW	WM	18.8	20	21.2	5	55	1.0	225	0.1	15.0
MM3Z22VCW	WN	20.8	22	23.3	5	55	1.0	250	0.1	17.0
MM3Z24VCW	WO	22.8	24	25.6	5	70	1.0	250	0.1	18.0
MM3Z27VCW	WP	25.1	27	28.9	5	80	1.0	300	0.1	20.0
MM3Z30VCW	WQ	28	30	32	5	80	1.0	300	0.1	22.5
MM3Z33VCW	WR	31	33	35	5	80	1.0	325	0.1	25.0
MM3Z36VCW	WS	34	36	38	5	90	1.0	350	0.1	27.0
MM3Z39VCW	WT	37	39	41	5	90	1.0	350	0.1	29.0

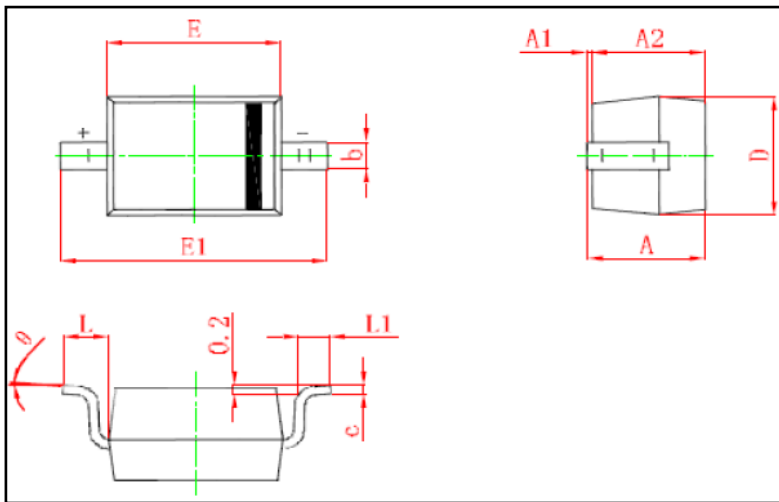
^{*1} Device mounted on ceramic PCB: 7.6mm×9.4mm×0.87mm with pad areas 25mm²

^{*2} f=1KHZ



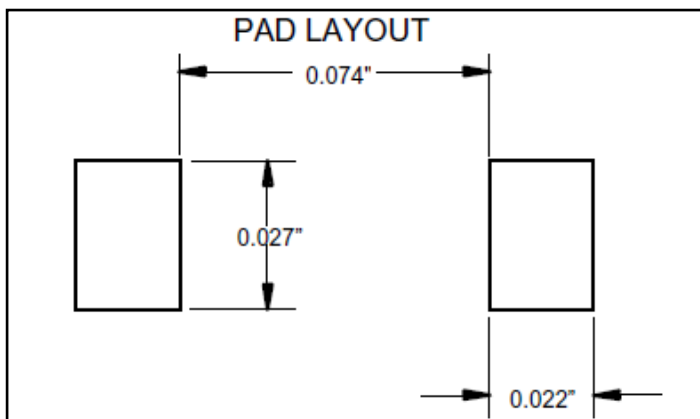
MM3Z2V7CW THRU MM3Z39VCW

■ Outline Dimensions



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

■ Soldering Footprint





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