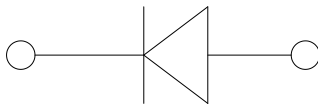


Zener Diodes



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

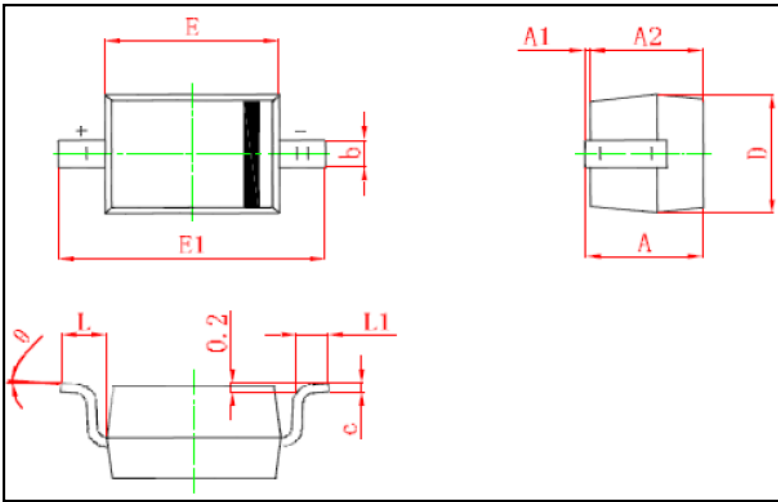
*1 Device mounted on ceramic PCB: 7.6mm×9.4mm×0.87mm with pad areas 25mm²

*2 f=1KHZ



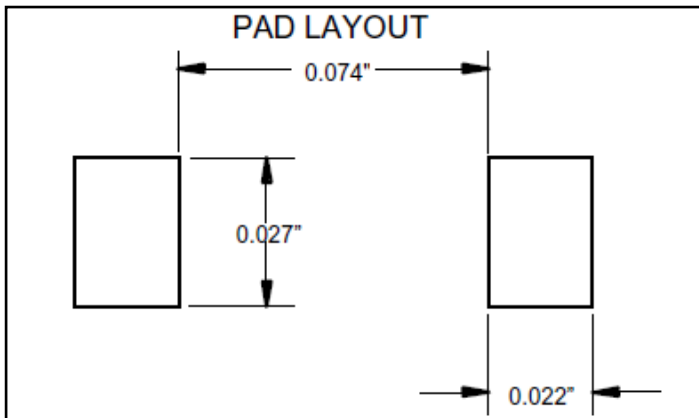
MM3Z2V7CW THRU MM3Z39VCW

■ 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





MM3Z2V7CW THRU MM3Z39VCW

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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

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

Other Similar products are found below :

[MMSZ5245BS-7-F](#) [RKZ13B2KG#P1](#) [RKZ5.6B2KJ#R1](#) [EDZTE6113B](#) [EDZTE6116B](#) [EDZTE616.8B](#) [1N747A](#) [1N966B](#) [NTE5116A](#)
[NTE5121A](#) [NTE5139A](#) [NTE5147A](#) [NTE5152A](#) [NTE5155A](#) [NTE5156A](#) [NTE5164A](#) [JANS1N4974US](#) [SMAJ4764A-TP](#) [RKZ5.1BKU#P6](#)
[3SMAJ5946B-TP](#) [3SMAJ5950B-TP](#) [3SMBJ5920B-TP](#) [3SMBJ5925B-TP](#) [TDZTR24](#) [441774C](#) [MMSZ4678-TP](#) [MMSZ5232BQ-13-F](#)
[BZG04-36](#) [BZG05C9V1-HE3-TR](#) [HZM30NBTR-E](#) [UDZTE-175.1B](#) [3SMAJ5945B-TP](#) [3SMAJ5947B-TP](#) [3SMBJ5941B-TP](#) [DL4746A-TP](#)
[RKZ18B2KK#R1](#) [RKZ10B2KL#R1](#) [RKZ6.8B2KL#R1](#) [RKZ8.2B2KL#R1](#) [DZ2S240M0L](#) [SMAZ27-TP](#) [SMBZ5920B-E3/52](#) [ZMM3.0](#)
[RD16UM-T1-A](#) [RD39S-T1-A](#) [RD9.1S-T1-A](#) [RD10S-T1-A](#) [RD20S-T1-A](#) [RD2.2S-T1-A](#) [RD2.7UM-T1-A](#)