

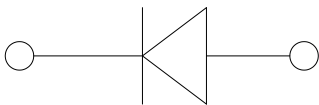


Zener Diodes



Features

- High reliability
- Very sharp reverse characteristic
- Low reverse current level



Mechanical Data

- **Package:** SOD123G
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■ Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Forward Voltage at I _F =10mA (Note 2)	VF	V	0.9
Power Dissipation at Ta=75°C Note 1)	PD	mW	500
Storage Temperature Range	T _{stg}	°C	-65~+150
Maximum Junction Temperature	T _j	°C	-65~+150

Notes:

1. Device mounted on ceramic PCB; 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
2. Short duration test pulse used to minimize self-heating effect.
3. f = 1KHz

■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MMSZ2V4CW THRU MMSZ51VCW	F1	Approximate 0.011	3000	45000	180000	7" reel



MMSZ2V4CW THRU MMSZ51VCW

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

Type Number	Type Code	V _Z at I _{ZT}			I _{ZT} mA	Z _{ZT} at I _{ZT}	I _{ZK} mA	Z _{ZK} at I _{ZK}	IR @ V _R μA	V _R V	Typical Temperature Coefficient@ IZTC mV/°C		Test Current I _{ZTC} mA
		Min	Nom	Max		Ω		Ω			Min	Max	
MMSZ2V4CW	WX	2.2	2.4	2.6	5	100	1.0	600	50	1.0	-3.5	0	5
MMSZ2V7CW	W1	2.5	2.7	2.9	5	100	1.0	600	20	1.0	-3.5	0	5
MMSZ3V0CW	W2	2.8	3.0	3.2	5	95	1.0	600	10	1.0	-3.5	0	5
MMSZ3V3CW	W3	3.1	3.3	3.5	5	95	1.0	600	5.0	1.0	-3.5	0	5
MMSZ3V6CW	W4	3.4	3.6	3.8	5	90	1.0	600	5.0	1.0	-3.5	0	5
MMSZ3V9CW	W5	3.7	3.9	4.1	5	90	1.0	600	3.0	1.0	-3.5	0	5
MMSZ4V3CW	W6	4.0	4.3	4.6	5	90	1.0	600	3.0	1.0	-3.5	0	5
MMSZ4V7CW	W7	4.4	4.7	5.0	5	80	1.0	500	3.0	2.0	-3.5	0.2	5
MMSZ5V1CW	W8	4.8	5.1	5.4	5	60	1.0	480	2.0	2.0	-2.7	1.2	5
MMSZ5V6CW	W9	5.2	5.6	6.0	5	40	1.0	400	1.0	2.0	-2	2.5	5
MMSZ6V2CW	WA	5.8	6.2	6.6	5	10	1.0	150	3.0	4.0	0.4	3.7	5
MMSZ6V8CW	WB	6.4	6.8	7.2	5	15	1.0	80	2.0	4.0	1.2	4.5	5
MMSZ7V5CW	WC	7.0	7.5	7.9	5	15	1.0	80	1.0	5.0	2.5	5.3	5
MMSZ8V2CW	WD	7.7	8.2	8.7	5	15	1.0	80	0.7	5.0	3.2	6.2	5
MMSZ9V1CW	WE	8.5	9.1	9.6	5	15	1.0	100	0.5	6.0	3.8	7.0	5
MMSZ10VCW	WF	9.4	10	10.6	5	20	1.0	150	0.2	7.0	4.5	8.0	5
MMSZ11VCW	WG	10.4	11	11.6	5	20	1.0	150	0.1	8.0	5.4	9.0	5
MMSZ12VCW	WH	11.4	12	12.7	5	25	1.0	150	0.1	8.0	6.0	10.0	5
MMSZ13VCW	WI	12.4	13	14.1	5	30	1.0	170	0.1	8.0	7.0	11.0	5
MMSZ15VCW	WJ	13.8	15	15.6	5	30	1.0	200	0.1	10.5	9.2	13.0	5
MMSZ16VCW	WK	15.3	16	17.1	5	40	1.0	200	0.1	11.2	10.4	14.0	5
MMSZ18VCW	WL	16.8	18	19.1	5	45	1.0	225	0.1	12.6	12.4	16.0	5
MMSZ20VCW	WM	18.8	20	21.2	5	55	1.0	225	0.1	14.0	14.4	18.0	5
MMSZ22VCW	WN	20.8	22	23.3	5	55	1.0	250	0.1	15.4	16.4	20.0	5
MMSZ24VCW	WO	22.8	24	25.6	5	70	1.0	250	0.1	16.8	18.4	22.0	5
MMSZ27VCW	WP	25.1	27	28.9	2	80	0.5	300	0.1	18.9	21.4	25.3	2
MMSZ30VCW	WQ	28.0	30	32.0	2	80	0.5	300	0.1	21.0	24.4	29.4	2
MMSZ33VCW	WR	31.0	33	35.0	2	80	0.5	325	0.1	23.1	27.4	33.4	2
MMSZ36VCW	WS	34.0	36	38.0	2	90	0.5	350	0.1	25.2	30.4	37.4	2
MMSZ39VCW	WT	37.0	39	41.0	2	130	0.5	350	0.1	27.3	33.4	41.2	2
MMSZ43VCW	WU	40.0	43	46.0	2	100	1.0	700	0.1	32.0	10.0	12.0	5
MMSZ47VCW	WV	44.0	47	50.0	2	100	1.0	750	0.1	35.0	10.0	12.0	5
MMSZ51VCW	WW	48.0	51	54.0	2	100	1.0	750	0.1	38.0	10.0	12.0	5

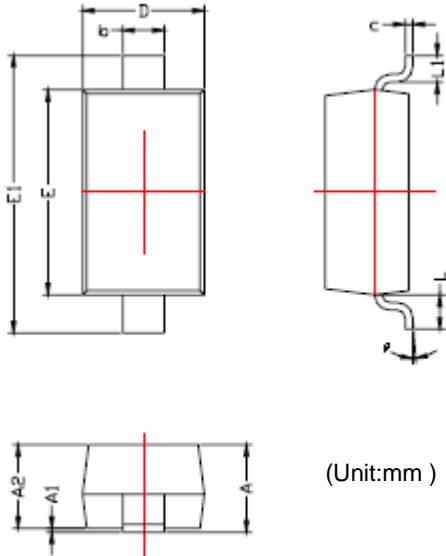
Notes:

C Capacitance =600pF Maximum @ V_R=0V, f=1MHZ for MMSZ2V4CW to MMSZ4V7CW
 =250pF Maximum @ V_R=0V, f=1MHZ for MMSZ5V1CW to MMSZ10VCW
 =120pF Maximum @ V_R=0V, f=1MHZ for MMSZ11VCW to MMSZ51VCW



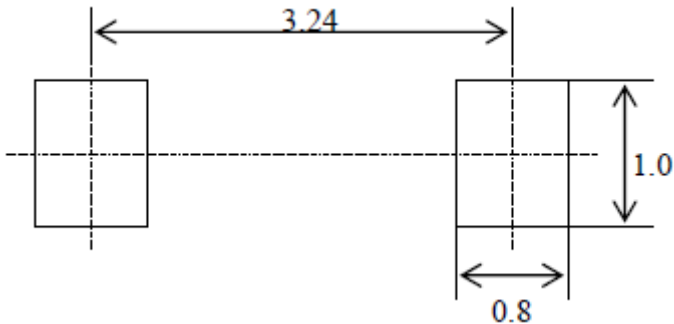
MMSZ2V4CW THRU MMSZ51VCW

■ Outline Dimensions



Symbol	Dimensions	
	MIN	MAX
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

■ Soldering Footprint



Unit: mm



MMSZ2V4CW THRU MMSZ51VCW

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