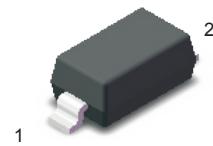


## Silicon Planar Zener Diodes

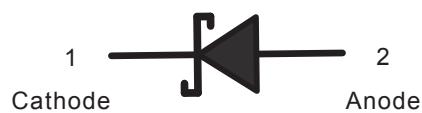
## FEATURES

- Total power dissipation: Max. 500mW.
- Wide zener reverse voltage range 2.0V to 75V.
- Small plastic package suitable for surface mounted design.
- Tolerance approximately $\pm 5\%$

## SOD-123W



## CIRCUIT DIAGRAM



## MECHANICAL DATA

- Case: SOD-123W
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 16mg/0.00056oz

MAXIMUM RATINGS ( $T_a=25^\circ C$  unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{tot}$	500	mW
Forward Voltage at $I_F = 10$ mA	$V_F$	0.9	V
Typical thermal resistance jucting to ambient <sup>(1)</sup>	$R_{\theta JA}$	340	$^\circ C/W$
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55 ~ +150	$^\circ C$

(1) Thermal resistance from junction to ambient at P.C.B. mounted with 2.0" X 2.0" (54 X 5 cm) copper areas pads.

## TYPICAL CHARACTERISTICS

Fig.1 Maximum Continuous Power Derating

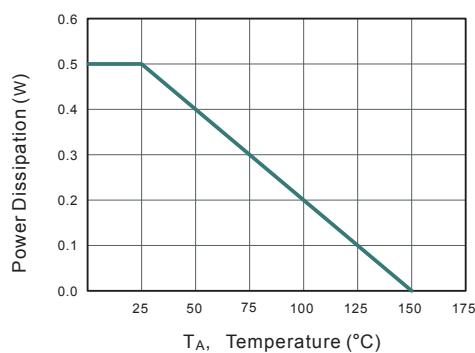
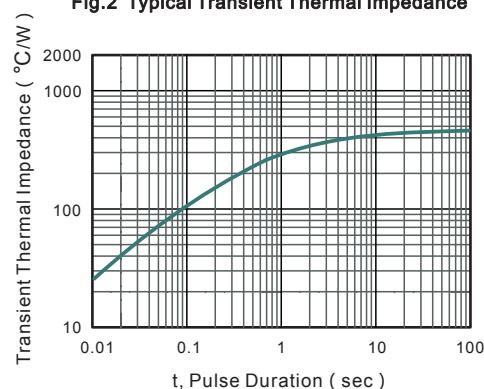


Fig.2 Typical Transient Thermal Impedance

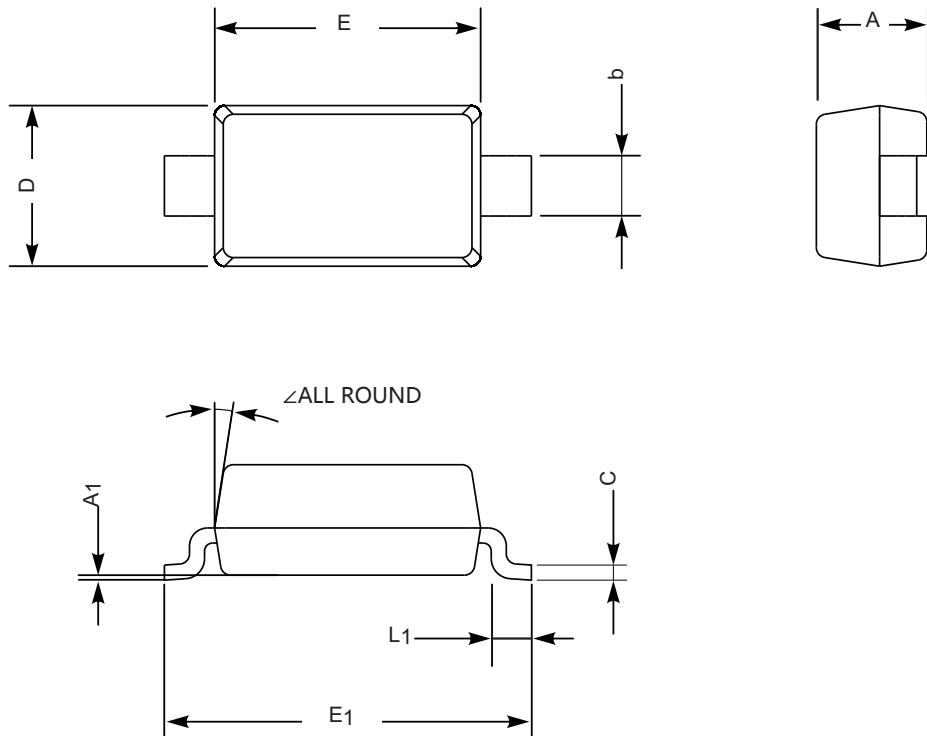


**ELECTRICAL CHARACTERISTICS Ta=25 °C unless otherwise specified**

Type	Marking	Zener Voltage Range <sup>(1)</sup>			I <sub>ZT</sub> (mA)	Dynamic Impedance	Reverse Current		
		V <sub>ZT</sub> ( at I <sub>ZT</sub> )				Z <sub>ZT</sub> ( at I <sub>ZT</sub> )	I <sub>R</sub>	at V <sub>R</sub>	
		Min ( V )	Nom ( V )	Max ( V )		Max ( Ω )	Max ( μA )	( V )	
MM1Z2V0W	4A	1.8	2.0	2.15	5	100	120	0.5	
MM1Z2V2W	4B	2.08	2.2	2.33	5	100	120	0.7	
MM1Z2V4W	4C	2.28	2.4	2.56	5	100	120	1	
MM1Z2V7W	4D	2.5	2.7	2.9	5	110	120	1	
MM1Z3V0W	4E	2.8	3.0	3.2	5	120	50	1	
MM1Z3V3W	4F	3.1	3.3	3.5	5	130	20	1	
MM1Z3V6W	4H	3.4	3.6	3.8	5	130	10	1	
MM1Z3V9W	4J	3.7	3.9	4.1	5	130	5	1	
MM1Z4V3W	4K	4	4.3	4.6	5	130	5	1	
MM1Z4V7W	4M	4.4	4.7	5	5	130	2	1	
MM1Z5V1W	4N	4.8	5.1	5.4	5	130	2	1.5	
MM1Z5V6W	4P	5.2	5.6	6	5	80	1	2.5	
MM1Z6V2W	4R	5.8	6.2	6.6	5	50	1	3	
MM1Z6V8W	4X	6.4	6.8	7.2	5	30	0.5	3.5	
MM1Z7V5W	4Y	7	7.5	7.9	5	30	0.5	4	
MM1Z8V2W	4Z	7.7	8.2	8.7	5	30	0.5	5	
MM1Z9V1W	5A	8.5	9.1	9.6	5	30	0.5	6	
MM1Z10W	5B	9.4	10	10.6	5	30	0.1	7	
MM1Z11W	5C	10.4	11	11.6	5	30	0.1	8	
MM1Z12W	5D	11.4	12	12.7	5	35	0.1	9	
MM1Z13W	5E	12.4	13	14.1	5	35	0.1	10	
MM1Z15W	5F	13.8	15	15.6	5	40	0.1	11	
MM1Z16W	5H	15.3	16	17.1	5	40	0.1	12	
MM1Z18W	5J	16.8	18	19.1	5	45	0.1	13	
MM1Z20W	5K	18.8	20	21.2	5	50	0.1	15	
MM1Z22W	5M	20.8	22	23.3	5	55	0.1	17	
MM1Z24W	5N	22.8	24	25.6	5	60	0.1	19	
MM1Z27W	5P	25.1	27	28.9	5	70	0.1	21	
MM1Z30W	5R	28	30	32	5	80	0.1	23	
MM1Z33W	5X	31	33	35	5	80	0.1	25	
MM1Z36W	5Y	34	36	38	5	90	0.1	27	
MM1Z39W	5Z	37	39	41	2.5	100	2	30	
MM1Z43W	6A	40	43	46	2.5	130	2	33	
MM1Z47W	6B	44	47	50	2.5	150	2	36	
MM1Z51W	6C	48	51	54	2.5	180	1	39	
MM1Z56W	6D	52	56	60	2.5	180	1	43	
MM1Z62W	6E	58	62	66	2.5	200	0.2	47	
MM1Z68W	6F	64	68	72	2.5	250	0.2	52	
MM1Z75W	6H	70	75	79	2.5	300	0.2	57	

( 1 ) V<sub>ZT</sub> is tested with pulses (20 ms)

## SOD-123W PACKAGE OUTLINE DRAWING



SYM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.9	1.3	0.035	0.051
C	0.09	0.22	0.004	0.009
D	1.5	1.8	0.059	0.071
E	2.5	2.8	0.098	0.110
E <sub>1</sub>	3.6	3.9	0.142	0.154
L <sub>1</sub>	0.25	0.45	0.010	0.018
b	0.5	0.7	0.020	0.028
A <sub>1</sub>	---	0.2	---	0.008
∠	9°		9°	

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