

自主封測 品質把控 售後保障

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電源管理



顯示驅動



二三極管



LDO穩壓器



觸摸芯片



MOS管



運算放大器



存儲芯片



MCU



串口通信

MM1W3V3-TD

產品規格說明書

MM1W3V3 THRU MM1W330

Silicon Planar Zener Diodes

FEATURES

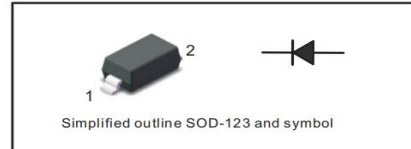
- Total power dissipation: Max. 1 W.
- Wide zener reverse voltage range 3.3V to 330V.
- Small plastic package suitable for surface mounted design.

MECHANICAL DATA

- Case: SOD-123
- Terminals: Solderable per MIL-STD-750, Method 2026

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings And Characteristics (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation at $T_L = 75^\circ\text{C}$	P_D	1	W
Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V
Typical thermal resistance junction to ambient ⁽¹⁾	$R_{\theta JA}$	300	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_J, T_{stg}	-55 ~ +150	$^\circ\text{C}$

(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.

Fig.1 Maximum Continuous Power Derating

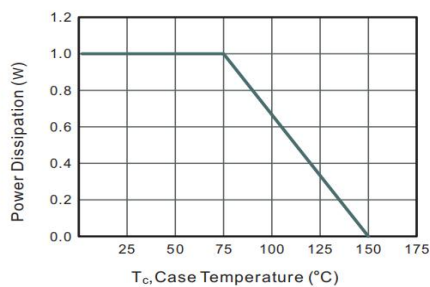
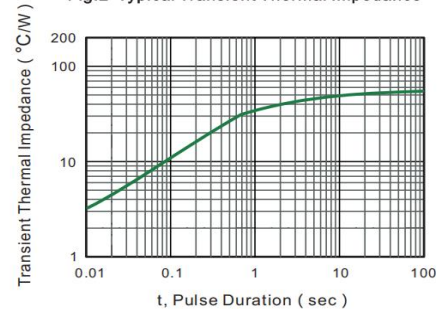


Fig.2 Typical Transient Thermal Impedance



Characteristics at Ta = 25°C

Type	Marking	Zener Voltage Range ⁽¹⁾				Dynamic Impedance	Reverse Current		Admissible Zener 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 (μA)	(V)	I _{ZM} (mA)
MM1W3V3	FHD	3.10	3.3	3.50	75	10	100	1	285
MM1W3V6	FHE	3.40	3.6	3.80	69	10	100	1	263
MM1W3V9	FHF	3.70	3.9	4.10	64	9.0	50	1	243
MM1W4V3	FHG	4.06	4.3	4.56	58	9.0	25	1	219
MM1W4V7	FHJ	4.50	4.7	4.93	53	8.0	10	1	203
MM1W5V1	FHK	4.84	5.1	5.36	49	7.0	10	1	186
MM1W5V6	FHL	5.32	5.6	5.92	45	5.0	10	2	170
MM1W6V2	FHN	5.86	6.2	6.51	41	2.0	10	3	154
MM1W6V8	FHO	6.46	6.8	7.18	37	3.5	10	4	140
MM1W7V5	FHQ	7.12	7.5	7.88	34	4.0	10	5	127
MM1W8V2	FHR	7.79	8.2	8.67	31	4.5	10	6	116
MM1W9V1	FHT	8.60	9.1	9.59	28	5.0	10	7	104
MM1W10	FHU	9.50	10	10.5	25	7.0	10	7	95
MM1W11	FHV	10.4	11	11.6	23	8.0	5	8	86
MM1W12	FHW	11.4	12	12.6	21	9.0	5	9	79
MM1W13	FHX	12.4	13	14.1	19	10	5	10	71
MM1W15	FHZ	13.8	15	15.8	17	14	5	11	63
MM1W16	FJA	15.2	16	17.1	16	16	5	12	58
MM1W18	FJF	16.8	18	19.2	14	20	5	13	52
MM1W20	FJG	19.0	20	21.2	13	22	5	15	47
MM1W22	FJK	20.8	22	23.3	12	23	5	17	43
MM1W24	FJL	22.8	24	26.0	11	25	5	18	38
MM1W27	FJN	25.3	27	28.9	9.5	35	5	21	35
MM1W30	FJQ	28.2	30	32.0	8.5	40	5	23	31
MM1W33	FJR	31.3	33	34.9	7.5	45	5	25	28
MM1W36	FJS	34.2	36	37.9	7.0	50	5	27	26
MM1W39	FJT	37.2	39	41.5	6.5	60	5	30	24
MM1W43	FLG	40.9	43	45.6	6.0	70	1	32	22
MM1W47	FLJ	44.9	47	49.8	5.5	80	1	35	20
MM1W51	FLK	48.6	51	54.0	5.0	95	1	38	18
MM1W56	FLL	53.6	56	58.8	4.5	110	1	42	17
MM1W62	FLN	58.9	62	65.6	4.0	125	1	47	15
MM1W68	FLO	64.6	68	71.7	3.7	150	1	52	14

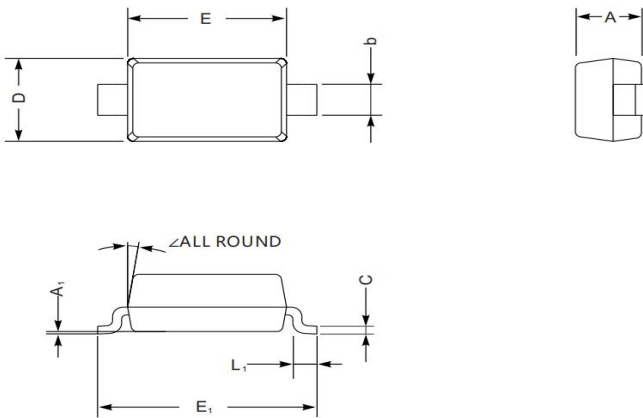
(1) V_{ZT} is tested with pulses (20 ms)

MM1W3V3 THRU MM1W330

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



SOD-123 mechanical data

UNIT		A	C	D	E	E ₁	L ₁	b	A ₁	∠
mm	max	1.3	0.22	1.8	2.8	3.9	0.45	0.7	0.2	9°
	min	0.9	0.09	1.5	2.5	3.6	0.25	0.5	—	
mil	max	51	8.7	71	110	154	18	28	8	
	min	35	3.5	59	98	142	10	20	—	

The recommended mounting pad size

