

# MM1Z2V0C~MM1Z75C

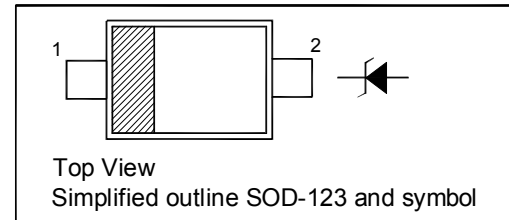
## Silicon Planar Zener Diodes

### Features

- Total power dissipation: max. 500 mW
- Small plastic package suitable for surface mounted design
- Tolerance  $\pm 5\%$

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 55 to + 150	$^\circ\text{C}$

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	340	$^\circ\text{C/W}$
Forward Voltage at $I_F = 10\text{ mA}$	$V_F$	0.9	V

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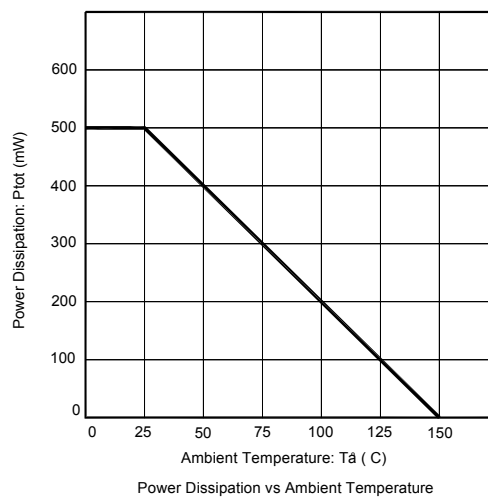
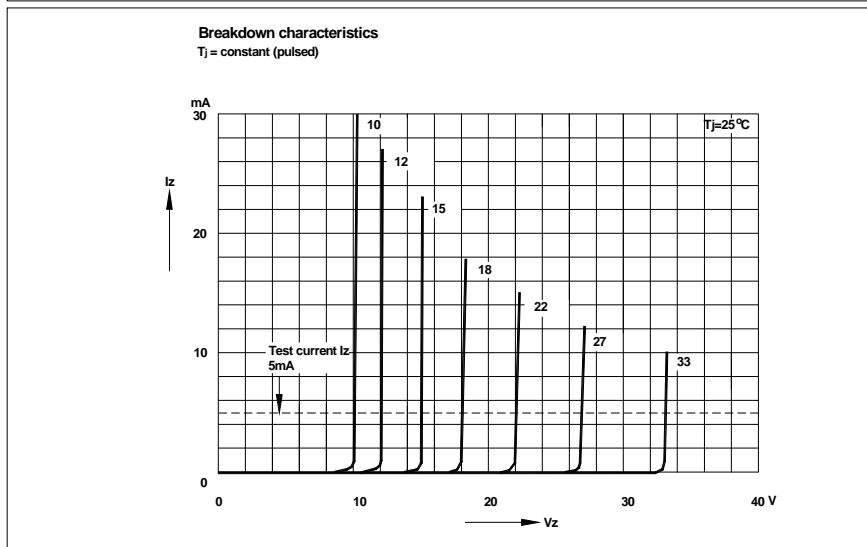
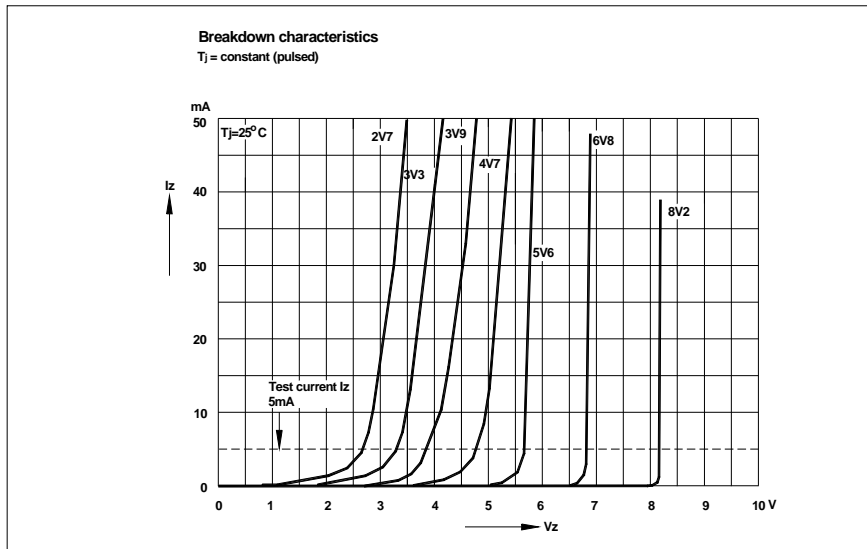
## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Marking Code	Zener Voltage Range <sup>1)</sup>			Dynamic Impedance <sup>2)</sup>		Reverse Leakage Current	
		$V_{znom}$	$V_{ZT}$	at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$I_R$	at $V_R$
		V	V	mA	Max. ( $\Omega$ )	mA	Max. ( $\mu\text{A}$ )	V
MM1Z2V0C	4A	2	1.9...2.1	5	100	5	120	0.5
MM1Z2V2C	4B	2.2	2.09...2.31	5	100	5	120	0.7
MM1Z2V4C	4C	2.4	2.28...2.52	5	100	5	120	1
MM1Z2V7C	4D	2.7	2.57...2.83	5	110	5	120	1
MM1Z3V0C	4E	3	2.85...3.15	5	120	5	50	1
MM1Z3V3C	4F	3.3	3.14...3.46	5	130	5	20	1
MM1Z3V6C	4H	3.6	3.42...3.78	5	130	5	10	1
MM1Z3V9C	4J	3.9	3.71...4.09	5	130	5	5	1
MM1Z4V3C	4K	4.3	4.09...4.51	5	130	5	5	1
MM1Z4V7C	4M	4.7	4.47...4.95	5	130	5	2	1
MM1Z5V1C	4N	5.1	4.85...5.35	5	130	5	2	1.5
MM1Z5V6C	4P	5.6	5.32...5.88	5	80	5	1	2.5
MM1Z6V2C	4R	6.2	5.89...6.51	5	50	5	1	3
MM1Z6V8C	4X	6.8	6.46...7.14	5	30	5	0.5	3.5
MM1Z7V5C	4Y	7.5	7.13...7.87	5	30	5	0.5	4
MM1Z8V2C	4Z	8.2	7.79...8.61	5	30	5	0.5	5
MM1Z9V1C	5A	9.1	8.65...9.55	5	30	5	0.5	6
MM1Z10C	5B	10	9.5...10.5	5	30	5	0.1	7
MM1Z11C	5C	11	10.45...11.55	5	30	5	0.1	8
MM1Z12C	5D	12	11.4...12.6	5	35	5	0.1	9
MM1Z13C	5E	13	12.35...13.65	5	35	5	0.1	10
MM1Z15C	5F	15	14.25...15.75	5	40	5	0.1	11
MM1Z16C	5H	16	15.2...16.8	5	40	5	0.1	12
MM1Z18C	5J	18	17.1...18.9	5	45	5	0.1	13
MM1Z20C	5K	20	19...21	5	50	5	0.1	15
MM1Z22C	5M	22	20.9...23.1	5	55	5	0.1	17
MM1Z24C	5N	24	22.8...25.2	5	60	5	0.1	19
MM1Z27C	5P	27	25.65...28.35	5	70	2	0.1	21
MM1Z30C	5R	30	28.5...31.5	5	80	2	0.1	23
MM1Z33C	5X	33	31.35...34.65	5	80	2	0.1	25
MM1Z36C	5Y	36	34.2...37.8	5	90	2	0.1	27
MM1Z39C	5Z	39	37.1...40.9	2.5	100	2	2	30
MM1Z43C	6A	43	40.85...45.15	2.5	130	2	2	33
MM1Z47C	6B	47	44.65...49.35	2.5	150	2	2	36
MM1Z51C	6C	51	48.45...53.55	2.5	180	2	1	39
MM1Z56C	6D	56	53.2...58.8	2.5	180	2	1	43
MM1Z62C	6E	62	58.9...65.1	2.5	200	2	0.2	47
MM1Z68C	6F	68	64.6...71.4	2.5	250	2	0.2	52
MM1Z75C	6H	75	71.25...78.75	2.5	300	2	0.2	57

<sup>1)</sup>  $V_Z$  is tested with pulses (20 ms).

<sup>2)</sup>  $Z_{ZT}$  is measured at  $I_Z$  by given a very small A.C. current signal.

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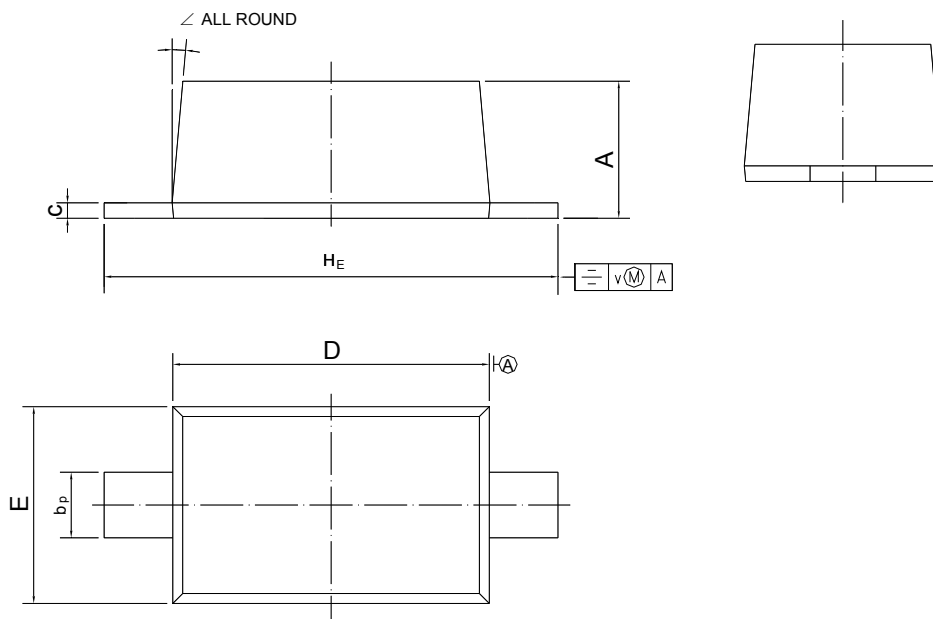


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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



UNIT	A	b <sub>p</sub>	c	D	E	H <sub>E</sub>	v	∠
mm	1.15 1.05	0.6 0.5	0.135 0.100	2.7 2.6	1.65 1.55	3.85 3.55	0.2	5°