

# MM1Z2V0~MM1Z75

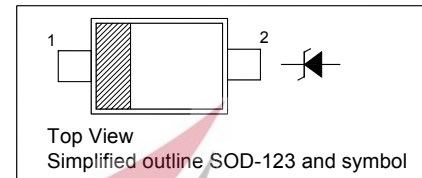
## SILICON PLANAR ZENER DIODES

### Features

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

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

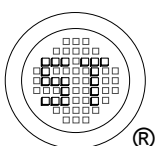


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	500	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_s$	- 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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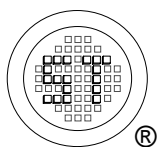
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## Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Type	Marking Code	Zener Voltage Range <sup>1)</sup>			Dynamic Impedance <sup>2)</sup>		Reverse Leakage Current	
		$V_{znom}$ V	$I_{ZT}$ mA	for $V_{ZT}$ V	$Z_{ZT}$ (Max.) $\Omega$	at $I_Z$ mA	$I_R$ (Max.) $\mu\text{A}$	at $V_R$ V
MM1Z2V0	4A	2.0	5	1.8...2.15	100	5	120	0.5
MM1Z2V2	4B	2.2	5	2.08...2.33	100	5	120	0.7
MM1Z2V4	4C	2.4	5	2.28...2.56	100	5	120	1
MM1Z2V7	4D	2.7	5	2.5...2.9	110	5	120	1
MM1Z3V0	4E	3.0	5	2.8...3.2	120	5	50	1
MM1Z3V3	4F	3.3	5	3.1...3.5	130	5	20	1
MM1Z3V6	4H	3.6	5	3.4...3.8	130	5	10	1
MM1Z3V9	4J	3.9	5	3.7...4.1	130	5	5	1
MM1Z4V3	4K	4.3	5	4...4.6	130	5	5	1
MM1Z4V7	4M	4.7	5	4.4...5	130	5	2	1
MM1Z5V1	4N	5.1	5	4.8...5.4	130	5	2	1.5
MM1Z5V6	4P	5.6	5	5.2...6	80	5	1	2.5
MM1Z6V2	4R	6.2	5	5.8...6.6	50	5	1	3
MM1Z6V8	4X	6.8	5	6.4...7.2	30	5	0.5	3.5
MM1Z7V5	4Y	7.5	5	7...7.9	30	5	0.5	4
MM1Z8V2	4Z	8.2	5	7.7...8.7	30	5	0.5	5
MM1Z9V1	5A	9.1	5	8.5...9.6	30	5	0.5	6
MM1Z10	5B	10	5	9.4...10.6	30	5	0.1	7
MM1Z11	5C	11	5	10.4...11.6	30	5	0.1	8
MM1Z12	5D	12	5	11.4...12.7	35	5	0.1	9
MM1Z13	5E	13	5	12.4...14.1	35	5	0.1	10
MM1Z15	5F	15	5	13.8...15.6	40	5	0.1	11
MM1Z16	5H	16	5	15.3...17.1	40	5	0.1	12
MM1Z18	5J	18	5	16.8...19.1	45	5	0.1	13
MM1Z20	5K	20	5	18.8...21.2	50	5	0.1	15
MM1Z22	5M	22	5	20.8...23.3	55	5	0.1	17
MM1Z24	5N	24	5	22.8...25.6	60	5	0.1	19
MM1Z27	5P	27	5	25.1...28.9	70	2	0.1	21
MM1Z30	5R	30	5	28...32	80	2	0.1	23
MM1Z33	5X	33	5	31...35	80	2	0.1	25
MM1Z36	5Y	36	5	34...38	90	2	0.1	27
MM1Z39	5Z	39	2.5	37...41	100	2	2	30
MM1Z43	6A	43	2.5	40...46	130	2	2	33
MM1Z47	6B	47	2.5	44...50	150	2	2	36
MM1Z51	6C	51	2.5	48...54	180	2	1	39
MM1Z56	6D	56	2.5	52...60	180	2	1	43
MM1Z62	6E	62	2.5	58...66	200	2	0.2	47
MM1Z68	6F	68	2.5	64...72	250	2	0.2	52
MM1Z75	6H	75	2.5	70...79	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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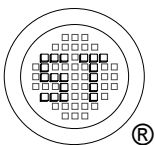
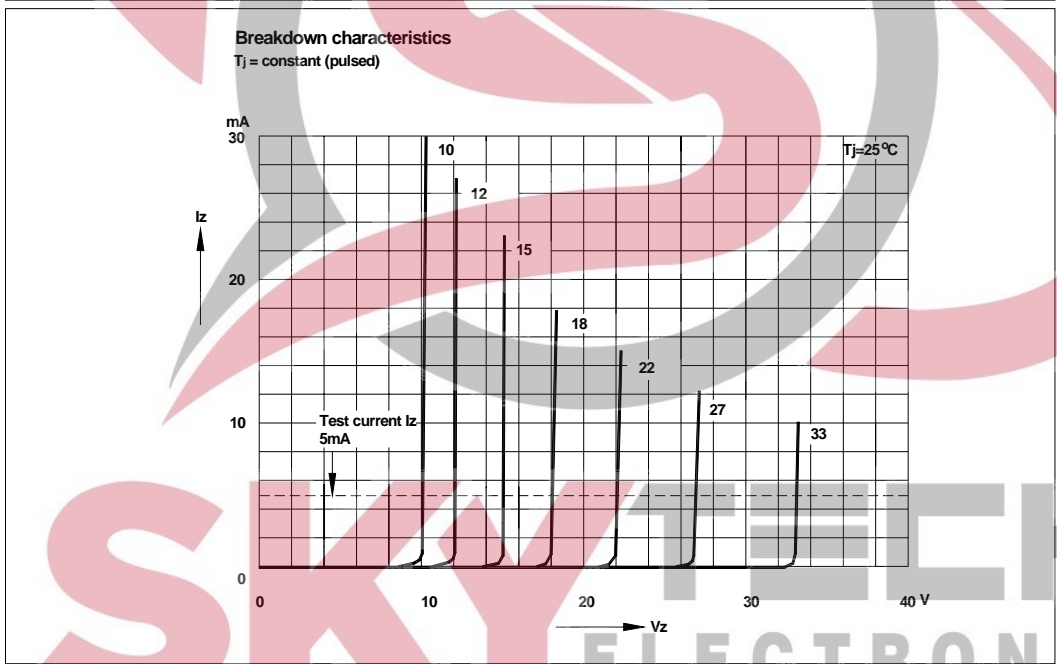
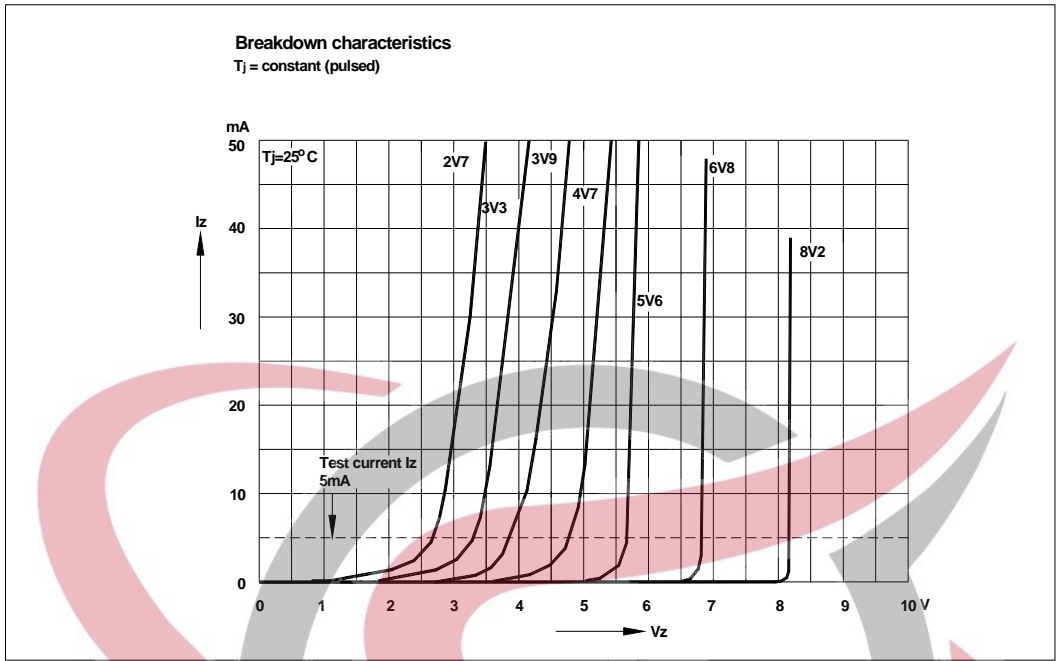
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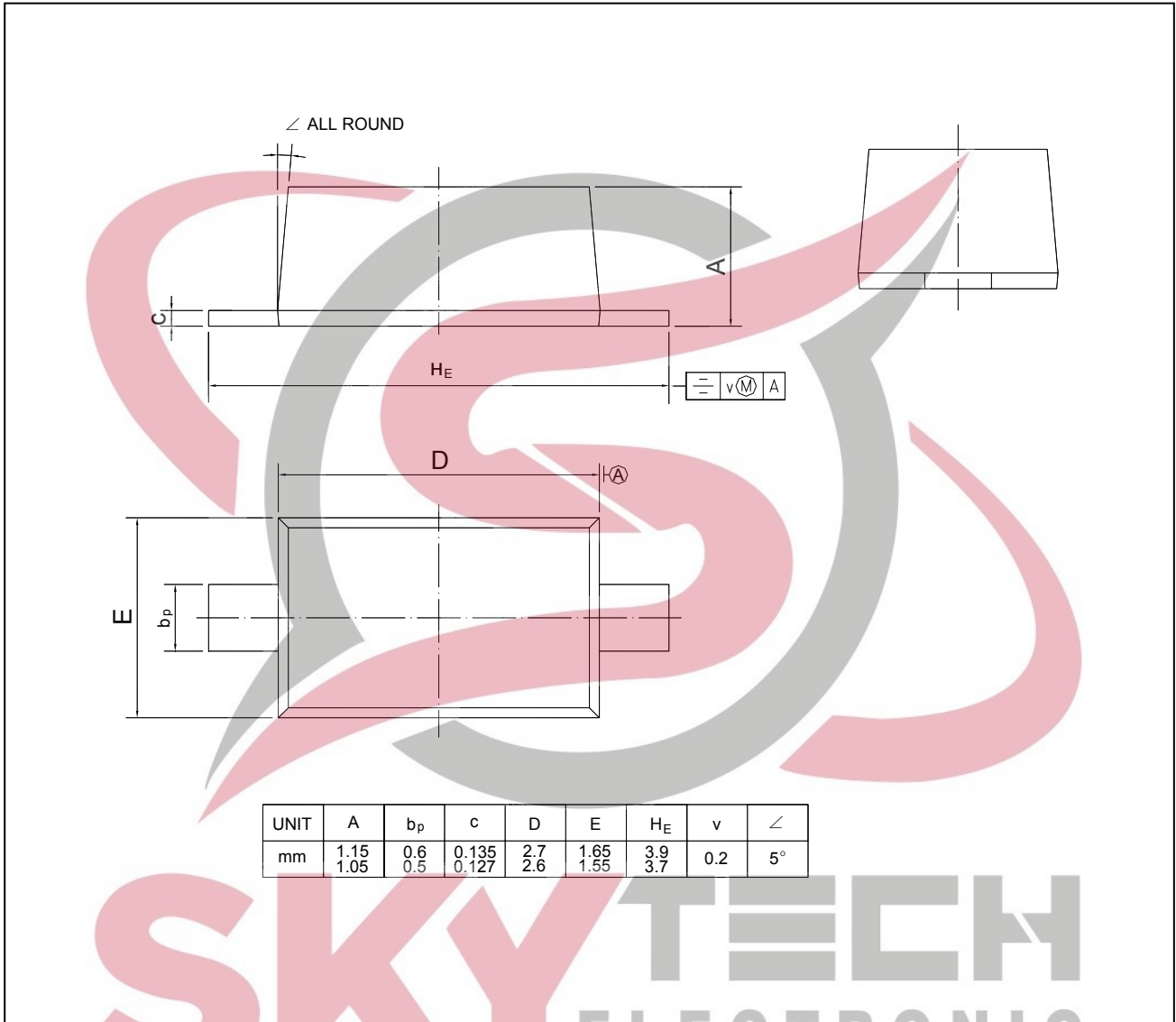
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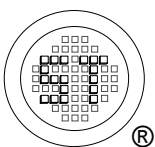
## PACKAGE OUTLINE

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 0.127	2.7 2.6	1.65 1.55	3.9 3.7	0.2	5°



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