

# MM3Z2V0~MM3Z75-BL

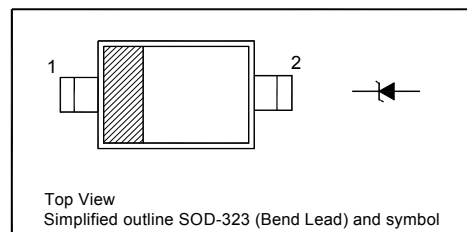
## Silicon Planar Zener Diodes

### Features

- Total power dissipation : max. 300 mW
- Small plastic package suitable for surface mounted design
- Tolerance approximately  $\pm 5\%$

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	300	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{stg}}$	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\theta\text{JA}}$	417	$^\circ\text{C/W}$
Forward Voltage at $I_F = 10 \text{ mA}$	$V_F$	0.9	V



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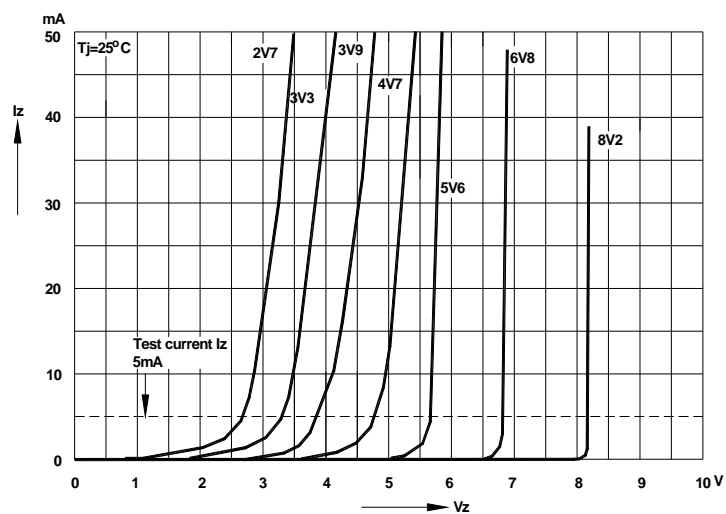
Type	Marking Code	Zener Voltage Range <sup>1)</sup>			Dynamic Impedance		Reverse Leakage Current	
		$V_{znom}$	$V_{ZT}$	at $I_{ZT}$	$Z_{ZT}$	at $I_{ZT}$	$I_R$	at $V_R$
		(V)	(V)	(mA)	Max. ( $\Omega$ )	(mA)	Max. ( $\mu\text{A}$ )	(V)
MM3Z2V0	B0	2.0	1.8...2.15	5	100	5	120	0.5
MM3Z2V2	C0	2.2	2.08...2.33	5	100	5	120	0.7
MM3Z2V4	1C	2.4	2.28...2.56	5	100	5	120	1
MM3Z2V7	1D	2.7	2.5...2.9	5	110	5	120	1
MM3Z3V0	1E	3.0	2.8...3.2	5	120	5	50	1
MM3Z3V3	1F	3.3	3.1...3.5	5	130	5	20	1
MM3Z3V6	1H	3.6	3.4...3.8	5	130	5	10	1
MM3Z3V9	1J	3.9	3.7...4.1	5	130	5	5	1
MM3Z4V3	1K	4.3	4...4.6	5	130	5	5	1
MM3Z4V7	1M	4.7	4.4...5	5	130	5	2	1
MM3Z5V1	1N	5.1	4.8...5.4	5	130	5	2	1.5
MM3Z5V6	1P	5.6	5.2...6	5	80	5	1	2.5
MM3Z6V2	1R	6.2	5.8...6.6	5	50	5	1	3
MM3Z6V8	1X	6.8	6.4...7.2	5	30	5	0.5	3.5
MM3Z7V5	1Y	7.5	7...7.9	5	30	5	0.5	4
MM3Z8V2	1Z	8.2	7.7...8.7	5	30	5	0.5	5
MM3Z9V1	2A	9.1	8.5...9.6	5	30	5	0.5	6
MM3Z10	2B	10	9.4...10.6	5	30	5	0.1	7
MM3Z11	2C	11	10.4...11.6	5	30	5	0.1	8
MM3Z12	2D	12	11.4...12.7	5	35	5	0.1	9
MM3Z13	2E	13	12.4...14.1	5	35	5	0.1	10
MM3Z15	2F	15	13.8...15.6	5	40	5	0.1	11
MM3Z16	2H	16	15.3...17.1	5	40	5	0.1	12
MM3Z18	2J	18	16.8...19.1	5	45	5	0.1	13
MM3Z20	2K	20	18.8...21.2	5	50	5	0.1	15
MM3Z22	2M	22	20.8...23.3	5	55	5	0.1	17
MM3Z24	2N	24	22.8...25.6	5	60	5	0.1	19
MM3Z27	2P	27	25.1...28.9	2	70	2	0.1	21
MM3Z30	2R	30	28...32	2	80	2	0.1	23
MM3Z33	2X	33	31...35	2	80	2	0.1	25
MM3Z36	2Y	36	34...38	2	90	2	0.1	27
MM3Z39	2Z	39	37...41	2	100	2	0.1	30
MM3Z43	3A	43	40...46	2	130	2	0.1	33
MM3Z47	3B	47	44...50	2	150	2	0.1	36
MM3Z51	3C	51	48...54	2	180	2	0.1	39
MM3Z56	3D	56	52...60	2	200	2	0.1	43
MM3Z62	3E	62	58...66	2	215	2	0.1	47
MM3Z68	3F	68	64...72	2	240	2	0.1	52
MM3Z75	3H	75	70...79	2	265	2	0.1	56

<sup>1)</sup>  $V_{ZT}$  is tested with pulses (20 ms).

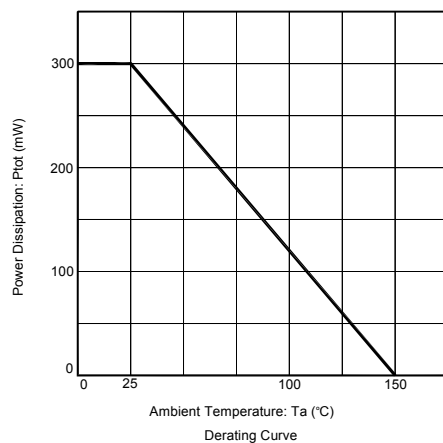
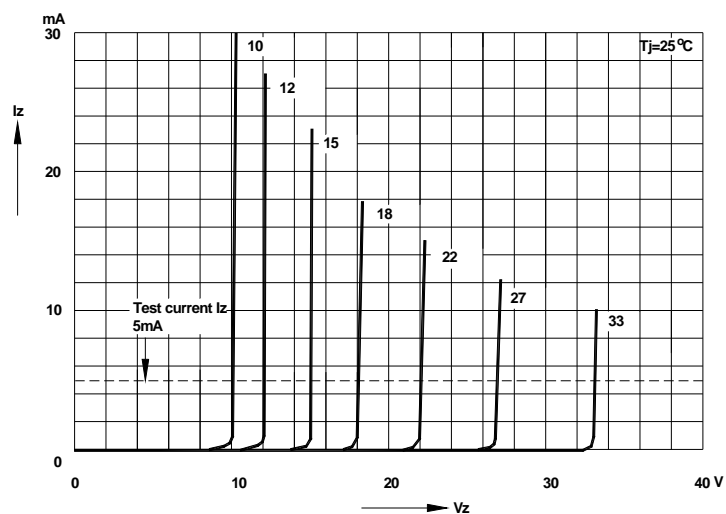


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Breakdown characteristics  
T<sub>j</sub> = constant (pulsed)



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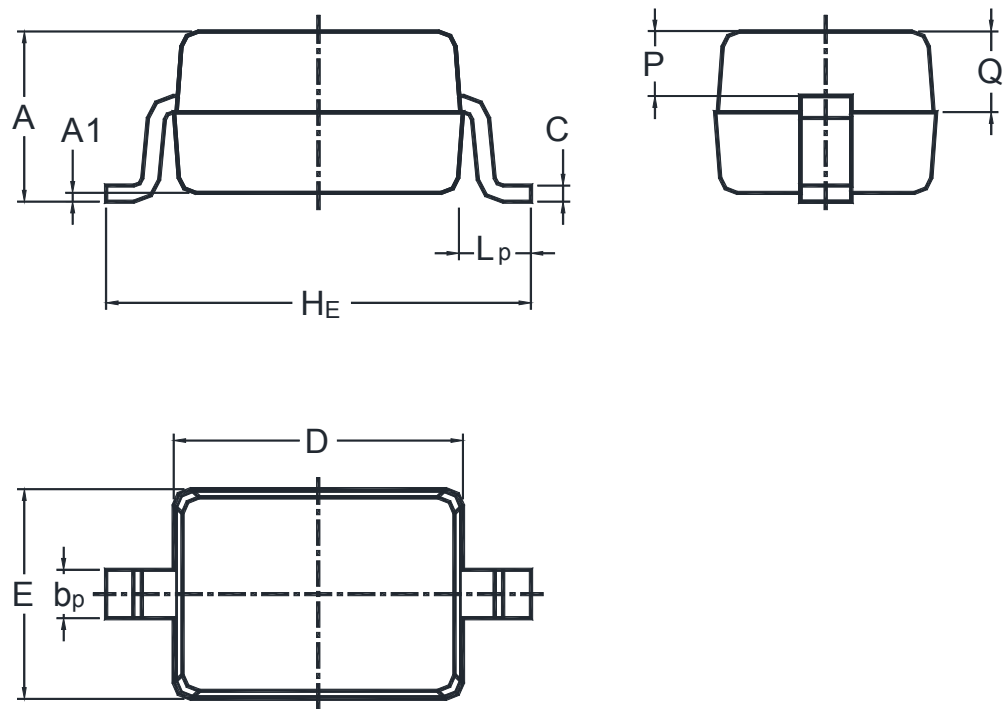


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## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323(Bend Lead)



UNIT	A	A <sub>1</sub>	b <sub>p</sub>	C	D	E	H <sub>E</sub>	L <sub>p</sub>	Q	P
mm	1.1 0.8	0.1 0	0.4 0.25	0.18 0.09	1.8 1.6	1.35 1.15	2.8 2.3	0.5 0.1	0.5 0.3	0.4 0.3

