

# MM1Z2V0B~MM1Z39B-BL

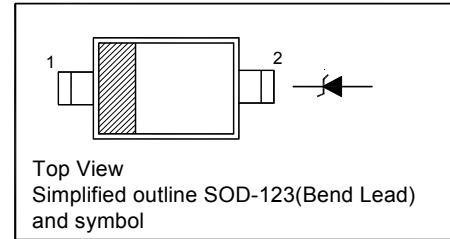
## Silicon Planar Zener Diodes

### Features

- Total power dissipation: max. 500 mW
- Small plastic package suitable for surface mounted design
- High reliability

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

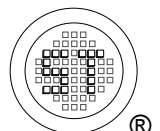


### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ unless otherwise specified )

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

### Characteristics at $T_a = 25\text{ }^\circ\text{C}$ (unless otherwise specified)

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



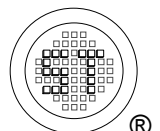
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## Characteristics at $T_a = 25\text{ °C}$ unless otherwise specified

Type	Marking Code	Zener Voltage Range <sup>1)</sup>			Dynamic Impedance <sup>2)</sup>		Reverse Leakage Current	
		$V_{znom}$ V	for $V_{ZT}$		$Z_{ZT}$ (Max.) $\Omega$	at $I_{ZT}$ mA	$I_R$ (Max.) $\mu A$	at $V_R$ V
			$I_{ZT}$ mA	V				
MM1Z2V0B	9A	2.0	5	1.85...2.2	100	5	120	0.5
MM1Z2V2B	9B	2.2	5	2.1...2.4	100	5	120	0.7
MM1Z2V4B	9C	2.4	5	2.3...2.65	100	5	120	1
MM1Z2V7B	9D	2.7	5	2.65...2.95	110	5	120	1
MM1Z3V0B	9E	3.0	5	2.95...3.25	120	5	50	1
MM1Z3V3B	9F	3.3	5	3.25...3.55	120	5	20	1
MM1Z3V6B	9H	3.6	5	3.6...3.845	100	5	10	1
MM1Z3V9B	9J	3.9	5	3.89...4.16	100	5	5	1
MM1Z4V3B	9K	4.3	5	4.17...4.43	100	5	5	1
MM1Z4V7B	9M	4.7	5	4.55...4.75	100	5	2	1
MM1Z5V1B	9N	5.1	5	4.98...5.2	80	5	2	1.5
MM1Z5V6B	9P	5.6	5	5.49...5.73	60	5	1	2.5
MM1Z6V2B	9R	6.2	5	6.06...6.33	60	5	1	3
MM1Z6V8B	9X	6.8	5	6.65...6.93	40	5	0.5	3.5
MM1Z7V5B	9Y	7.5	5	7.28...7.6	30	5	0.5	4
MM1Z8V2B	9Z	8.2	5	8.02...8.36	30	5	0.5	5
MM1Z9V1B	0A	9.1	5	8.85...9.23	30	5	0.5	6
MM1Z10B	0B	10	5	9.77...10.21	30	5	0.1	7
MM1Z11B	0C	11	5	10.76...11.22	30	5	0.1	8
MM1Z12B	0D	12	5	11.74...12.24	30	5	0.1	9
MM1Z13B	0E	13	5	12.91...13.49	37	5	0.1	10
MM1Z15B	0F	15	5	14.34...14.98	42	5	0.1	11
MM1Z16B	0H	16	5	15.85...16.51	50	5	0.1	12
MM1Z18B	0J	18	5	17.56...18.35	65	5	0.1	13
MM1Z20B	0K	20	5	19.52...20.39	85	5	0.1	15
MM1Z22B	0M	22	5	21.54...22.47	100	5	0.1	17
MM1Z24B	0N	24	5	23.72...24.78	120	5	0.1	19
MM1Z27B	0P	27	5	26.19...27.53	150	5	0.1	21
MM1Z30B	0R	30	5	29.19...30.69	200	5	0.1	23
MM1Z33B	0X	33	5	32.15...33.79	250	5	0.1	25
MM1Z36B	0Y	36	5	35.07...36.87	300	5	0.1	27
MM1Z39B	0Z	39	5	37...41	100	5	2	30

<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.

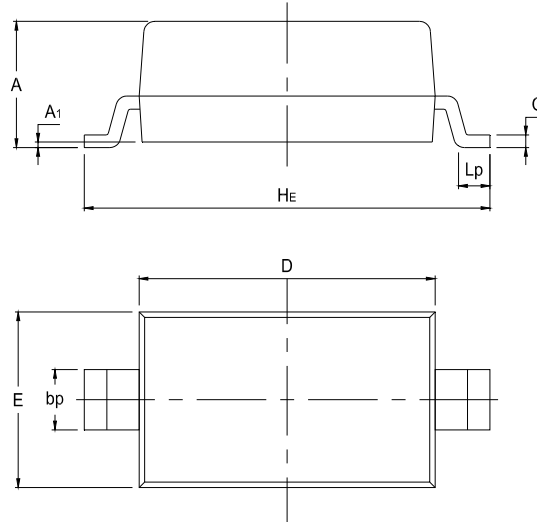


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## PACKAGE OUTLINE

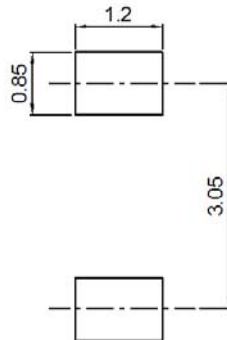
Plastic surface mounted package; 2 leads

SOD-123(Bend Lead)



UNIT	A	A <sub>1</sub>	bp	C	D	E	H <sub>E</sub>	L <sub>p</sub>	Q
mm	1.21	0.1	0.7	0.14	2.7	1.7	3.8	0.4	0.65
	0.91	0	0.5	0.08	2.54	1.5	3.5	0.2	0.55

### Recommended Soldering Footprint



### Packing information

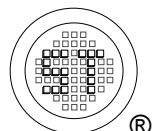
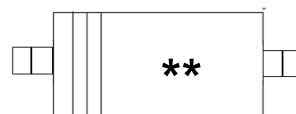
Package	Tape Width (mm)	Pitch		Reel Size		Per Reel Packing Quantity
		mm	(inch)	mm	(inch)	
SOD-123BL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000

### Marking information

" III " = Cathode line

" \*\* " = Part No.

Font type: Arial



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