

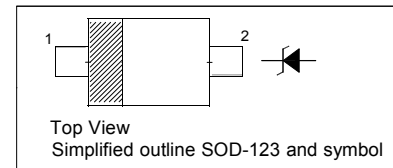
SILICON PLANAR ZENER DIODES

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 ($T_a = 25\text{ }^\circ\text{C}$)

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

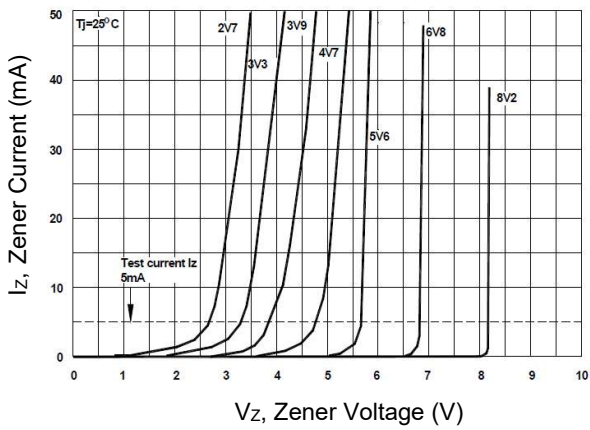
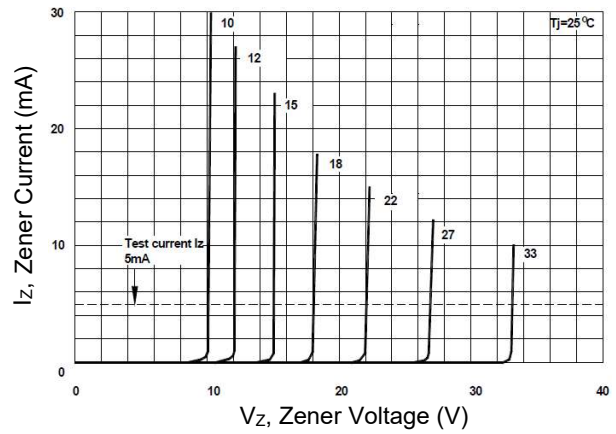
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

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

Characteristics at $T_a = 25\text{ °C}$

Type	Marking Code	Zener Voltage Range ¹⁾			Dynamic Impedance		Reverse Leakage Current	
		V_{znom} V	I_{ZT} for V_{ZT}		Z_{ZT} (Max.) Ω	at I_{ZT} mA	I_R (Max.) μA	at V_R V
			mA	V				
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	4.61...4.79	100	5	2	1
MM1Z5V1B	9N	5.1	5	4.98...5.20	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	7.35...7.65	30	5	0.5	4
MM1Z8V2B	9Z	8.2	5	8.02...8.36	30	5	0.5	5
MM1Z9V1B	0A	9.1	5	8.92...9.28	30	5	0.5	6
MM1Z10B	0B	10	5	9.80...10.20	30	5	0.1	7
MM1Z11B	0C	11	5	10.78...11.22	30	5	0.1	8
MM1Z12B	0D	12	5	11.76...12.24	30	5	0.1	9
MM1Z13B	0E	13	5	12.74...13.26	37	5	0.1	10
MM1Z15B	0F	15	5	14.70...15.30	42	5	0.1	11
MM1Z16B	0H	16	5	15.68...16.32	50	5	0.1	12
MM1Z18B	0J	18	5	17.64...18.36	65	5	0.1	13
MM1Z20B	0K	20	5	19.60...20.40	85	5	0.1	15
MM1Z22B	0M	22	5	21.56...22.44	100	5	0.1	17
MM1Z24B	0N	24	5	23.52...24.48	120	5	0.1	19
MM1Z27B	0P	27	5	26.46...27.54	150	5	0.1	21
MM1Z30B	0R	30	5	29.40...30.60	200	5	0.1	23
MM1Z33B	0X	33	5	32.34...33.66	250	5	0.1	25
MM1Z36B	0Y	36	5	35.28...36.72	300	5	0.1	27
MM1Z39B	0Z	39	5	38.22...39.78	100	5	2	30
MM1Z43B	1A	43	2	42.14...43.86	141	2	0.1	31
MM1Z47B	1B	47	2	46.06...47.95	160	2	0.1	33
MM1Z51B	1C	51	2	49.98...52.02	269	2	0.1	36
MM1Z56B	1D	56	2	54.88...57.12	188	2	0.1	40
MM1Z62B	1E	62	2	60.76...63.24	202	2	0.1	44
MM1Z68B	1F	68	2	66.64...69.36	226	2	0.1	48
MM1Z75B	1G	75	2	73.5...76.5	240	2	0.1	53

¹⁾ V_z is tested with pulses (20 ms).

Fig 1. Zener Characteristics Curve

Fig 2. Zener Characteristics Curve

Fig 3. Power Derating Curve
