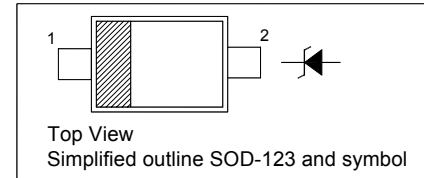


SILICON PLANAR ZENER DIODES
Features

- Power Dissipation: 500 mW
- Zener Voltage Tolerance: $\pm 2\%$

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

| Type | Marking Code | Zener Voltage Range ¹⁾ | | | Dynamic Impedance | | Reverse Leakage Current | |
|---------|--------------|-----------------------------------|----------------|-------------------|-----------------------------|----------------|-------------------------------|---------------|
| | | V_{znom} V | I_{zT} mA | for V_{zT} V | Z_{zT} (Max.) Ω | at I_z mA | I_R (Max.) μA | at V_R V |
| MM1Z2B4 | 5Y1 | 2.4 | 5 | 2.352...2.448 | 100 | 5 | 120 | 1 |
| MM1Z2B7 | 5Z1 | 2.7 | 5 | 2.646...2.754 | 110 | 5 | 120 | 1 |
| MM1Z3B0 | 6A1 | 3.0 | 5 | 2.94...3.06 | 120 | 5 | 50 | 1 |
| MM1Z3B3 | 6B1 | 3.3 | 5 | 3.234...3.366 | 130 | 5 | 20 | 1 |
| MM1Z3B6 | 6C1 | 3.6 | 5 | 3.528...3.672 | 130 | 5 | 10 | 1 |
| MM1Z3B9 | 6D1 | 3.9 | 5 | 3.822...3.978 | 130 | 5 | 5 | 1 |
| MM1Z4B3 | 6E1 | 4.3 | 5 | 4.214...4.386 | 130 | 5 | 5 | 1 |
| MM1Z4B7 | 6F1 | 4.7 | 5 | 4.606...4.794 | 130 | 5 | 2 | 1 |
| MM1Z5B1 | 6G1 | 5.1 | 5 | 4.998...5.202 | 130 | 5 | 2 | 1.5 |
| MM1Z5B6 | 6H1 | 5.6 | 5 | 5.488...5.712 | 80 | 5 | 1 | 2.5 |
| MM1Z6B2 | 6J1 | 6.2 | 5 | 6.076...6.324 | 50 | 5 | 1 | 3 |
| MM1Z6B8 | 6K1 | 6.8 | 5 | 6.664...6.936 | 30 | 5 | 0.5 | 3.5 |
| MM1Z7B5 | 6L1 | 7.5 | 5 | 7.35...7.65 | 30 | 5 | 0.5 | 4 |
| MM1Z8B2 | 6M1 | 8.2 | 5 | 8.036...8.364 | 30 | 5 | 0.5 | 5 |
| MM1Z9B1 | 6N1 | 9.1 | 5 | 8.918...9.282 | 30 | 5 | 0.5 | 6 |
| MM1ZB10 | 6P1 | 10 | 5 | 9.8...10.2 | 30 | 5 | 0.1 | 7 |
| MM1ZB11 | 6Q1 | 11 | 5 | 10.78...11.22 | 30 | 5 | 0.1 | 8 |
| MM1ZB12 | 6R1 | 12 | 5 | 11.76...12.24 | 35 | 5 | 0.1 | 9 |
| MM1ZB13 | 6S1 | 13 | 5 | 12.74...13.26 | 35 | 5 | 0.1 | 10 |
| MM1ZB15 | 6T1 | 15 | 5 | 14.7...15.3 | 40 | 5 | 0.1 | 11 |
| MM1ZB16 | 6U1 | 16 | 5 | 15.68...16.32 | 40 | 5 | 0.1 | 12 |
| MM1ZB18 | 6W1 | 18 | 5 | 17.64...18.36 | 45 | 5 | 0.1 | 13 |
| MM1ZB20 | 6X1 | 20 | 5 | 19.6...20.4 | 50 | 5 | 0.1 | 15 |
| MM1ZB22 | 6Y1 | 22 | 5 | 21.56...22.44 | 55 | 5 | 0.1 | 17 |
| MM1ZB24 | 6Z1 | 24 | 5 | 23.52...24.48 | 60 | 5 | 0.1 | 19 |
| MM1ZB27 | 7A1 | 27 | 5 | 26.46...27.54 | 70 | 2 | 0.1 | 21 |
| MM1ZB30 | 7B1 | 30 | 5 | 29.4...30.6 | 80 | 2 | 0.1 | 23 |
| MM1ZB33 | 7C1 | 33 | 5 | 32.34...33.66 | 80 | 2 | 0.1 | 25 |
| MM1ZB36 | 7D1 | 36 | 5 | 35.28...36.72 | 90 | 2 | 0.1 | 27 |
| MM1ZB39 | 7E1 | 39 | 2.5 | 38.22...39.78 | 100 | 2 | 2 | 30 |
| MM1ZB43 | 7F1 | 43 | 2.5 | 42.14...43.86 | 130 | 2 | 2 | 33 |
| MM1ZB47 | 7G1 | 47 | 2.5 | 46.06...47.94 | 150 | 2 | 2 | 36 |
| MM1ZB51 | 7H1 | 51 | 2.5 | 49.98...52.02 | 180 | 2 | 1 | 39 |
| MM1ZB56 | 7J1 | 56 | 2.5 | 54.88...57.12 | 180 | 2 | 1 | 43 |
| MM1ZB62 | 7K1 | 62 | 2.5 | 60.76...63.24 | 200 | 2 | 0.2 | 47 |
| MM1ZB68 | 7L1 | 68 | 2.5 | 66.64...69.36 | 250 | 2 | 0.2 | 52 |
| MM1ZB75 | 7M1 | 75 | 2.5 | 73.5...76.5 | 300 | 2 | 0.2 | 57 |

¹⁾ V_z is tested with pulses (20 ms).

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

