

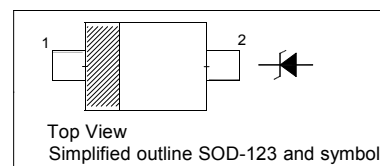
SILICON PLANAR ZENER DIODES

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

| Type | Marking Code | Zener Voltage Range ¹⁾ | | | Dynamic Impedance ²⁾ | | Reverse Leakage Current | |
|----------|--------------|-----------------------------------|--------------|---------------|---------------------------------|-------------|-------------------------|----------|
| | | V_{znom} | I_{ZT} for | V_{ZT} | $Z_{ZT}(\text{Max.})$ | at I_{ZT} | $I_R(\text{Max.})$ | at V_R |
| | | V | mA | V | Ω | mA | μA | 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 | 4.55...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 | 14.81...15.47 | 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 |

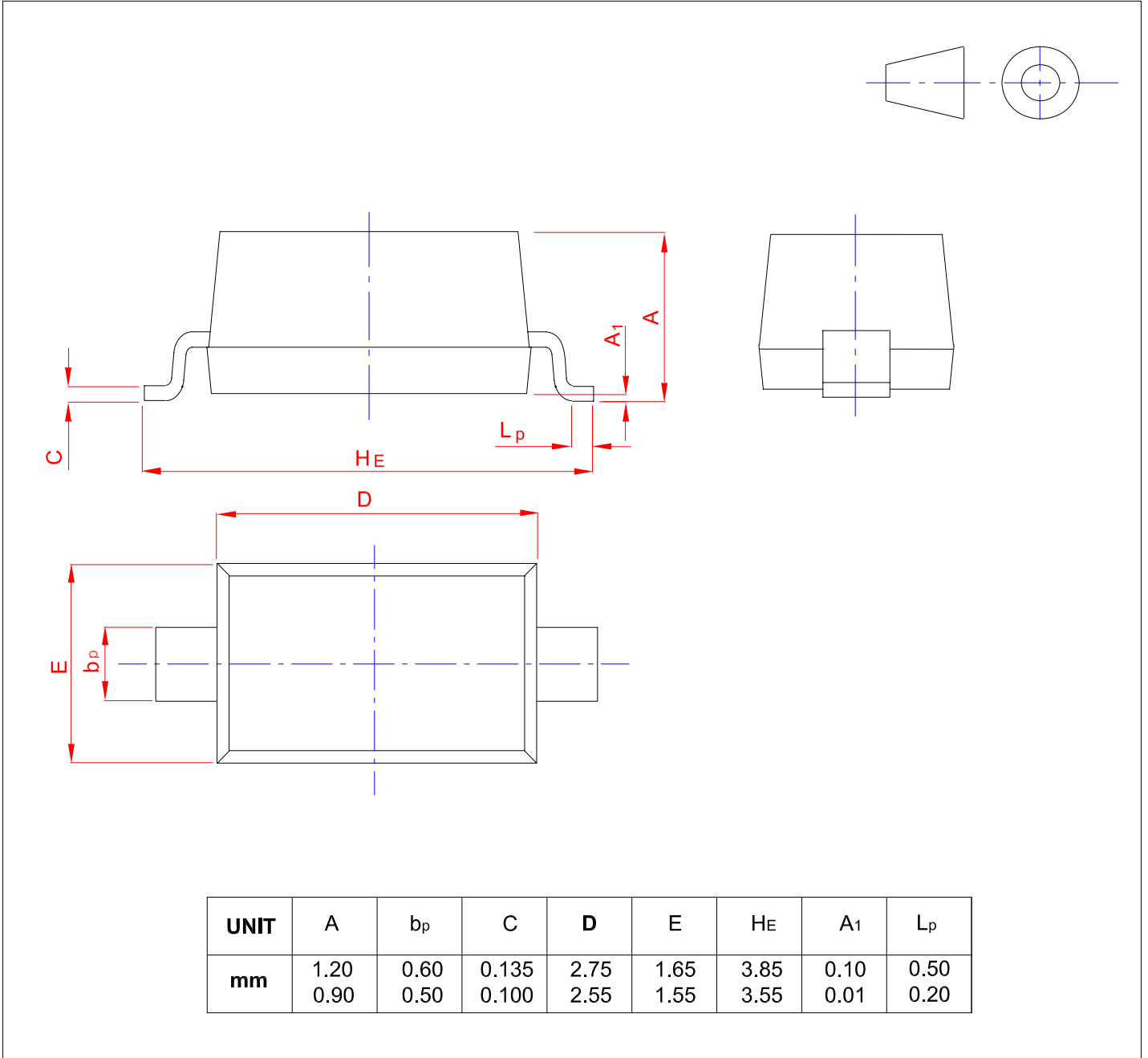
¹⁾ V_z is tested with pulses(20 ms).

²⁾ Z_{ZT} is measured at I_z by given a very small A.C. current signal.

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123



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