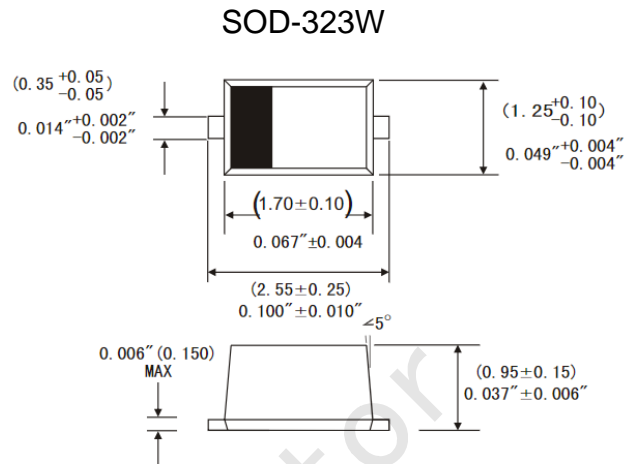


**FEATURES**

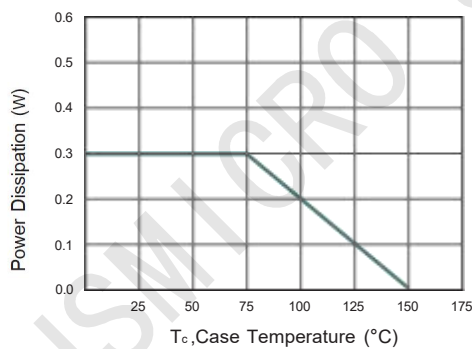
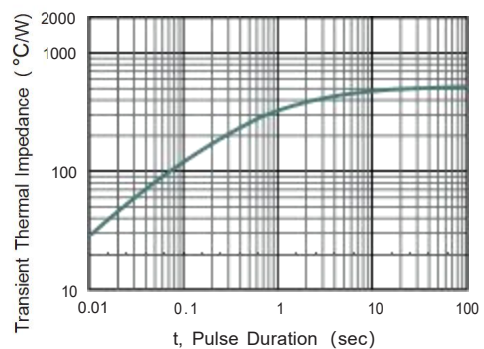
- ◆ Total power dissipation: Max. 300mW.
- ◆ Wide zener reverse voltage range 2.0V to 75V.
- ◆ Small plastic package suitable for surface mounted design.
- ◆ Tolerance approximately ±5%

**MECHANICAL DATA**

- ◆ Case: SOD-323W
- ◆ Weight: 5.48mg


**Absolute Maximum Ratings And Characteristics (Ta = 25 °C)**

| Parameter                                      | Symbol                | Dimensions in inches and (millimeters)<br>Value | Unit |
|--|-----------------------|---|------|
| Power Dissipation                              | $P_{\text{tot}}$      | 300   | mW   |
| Forward Voltage at $I_F = 10 \text{ mA}$       | $V_F$                 | 0.9   | V    |
| Typical thermal resistance junction to ambient | $R_{\theta JA}$       | 417   | °C/W |
| Operating and Storage Temperature Range        | $T_J, T_{\text{stg}}$ | -55 ~ +150                                      | °C   |

**Fig. 1 Maximum Continuous Power Derating**

**Fig. 2 Typical Transient Thermal Impedance**


**Characteristics at Ta = 25°C**

| Type     | Marking | Zener Voltage Range (20ms) |         |         | $I_{ZT}$<br>(mA) | Dynamic<br>Impedance<br>$Z_{ZT}$ (at $I_{ZT}$ )<br>Max ( $\Omega$ ) | Reverse Current          |                 |
|----------|---------|----------------------------|---------|---------|------------------|---|--------------------------|-----------------|
|          |         | $V_{ZT}$ (at $I_{ZT}$ )    |         |         |                  |   | $I_R$<br>Max ( $\mu A$ ) | at $V_R$<br>(V) |
|          |         | Min (V)                    | Nom (V) | Max (V) |                  |   |                          |                 |
| MM3Z2V0W | B0      | 1.8                        | 2.0     | 2.15    | 5                | 100   | 120                      | 0.5             |
| MM3Z2V2W | C0      | 2.08                       | 2.2     | 2.33    | 5                | 100   | 120                      | 0.7             |
| MM3Z2V4W | 1C      | 2.28                       | 2.4     | 2.56    | 5                | 100   | 120                      | 1               |
| MM3Z2V7W | 1D      | 2.5                        | 2.7     | 2.9     | 5                | 110   | 120                      | 1               |
| MM3Z3V0W | 1E      | 2.8                        | 3.0     | 3.2     | 5                | 120   | 50                       | 1               |
| MM3Z3V3W | 1F      | 3.1                        | 3.3     | 3.5     | 5                | 130   | 20                       | 1               |
| MM3Z3V6W | 1H      | 3.4                        | 3.6     | 3.8     | 5                | 130   | 10                       | 1               |
| MM3Z3V9W | 1J      | 3.7                        | 3.9     | 4.1     | 5                | 130   | 5                        | 1               |
| MM3Z4V3W | 1K      | 4                          | 4.3     | 4.6     | 5                | 130   | 5                        | 1               |
| MM3Z4V7W | 1M      | 4.4                        | 4.7     | 5       | 5                | 130   | 2                        | 1               |
| MM3Z5V1W | 1N      | 4.8                        | 5.1     | 5.4     | 5                | 130   | 2                        | 1.5             |
| MM3Z5V6W | 1P      | 5.2                        | 5.6     | 6       | 5                | 80  | 1                        | 2.5             |
| MM3Z6V2W | 1R      | 5.8                        | 6.2     | 6.6     | 5                | 50  | 1                        | 3               |
| MM3Z6V8W | 1X      | 6.4                        | 6.8     | 7.2     | 5                | 30  | 0.5                      | 3.5             |
| MM3Z7V5W | 1Y      | 7                          | 7.5     | 7.9     | 5                | 30  | 0.5                      | 4               |
| MM3Z8V2W | 1Z      | 7.7                        | 8.2     | 8.7     | 5                | 30  | 0.5                      | 5               |
| MM3Z9V1W | 2A      | 8.5                        | 9.1     | 9.6     | 5                | 30  | 0.5                      | 6               |
| MM3Z10W  | 2B      | 9.4                        | 10      | 10.6    | 5                | 30  | 0.1                      | 7               |
| MM3Z11W  | 2C      | 10.4                       | 11      | 11.6    | 5                | 30  | 0.1                      | 8               |
| MM3Z12W  | 2D      | 11.4                       | 12      | 12.7    | 5                | 35  | 0.1                      | 9               |
| MM3Z13W  | 2E      | 12.4                       | 13      | 14.1    | 5                | 35  | 0.1                      | 10              |
| MM3Z15W  | 2F      | 13.8                       | 15      | 15.6    | 5                | 40  | 0.1                      | 11              |
| MM3Z16W  | 2H      | 15.3                       | 16      | 17.1    | 5                | 40  | 0.1                      | 12              |
| MM3Z18W  | 2J      | 16.8                       | 18      | 19.1    | 5                | 45  | 0.1                      | 13              |
| MM3Z20W  | 2K      | 18.8                       | 20      | 21.2    | 5                | 50  | 0.1                      | 15              |
| MM3Z22W  | 2M      | 20.8                       | 22      | 23.3    | 5                | 55  | 0.1                      | 17              |
| MM3Z24W  | 2N      | 22.8                       | 24      | 25.6    | 5                | 60  | 0.1                      | 19              |
| MM3Z27W  | 2P      | 25.1                       | 27      | 28.9    | 2                | 70  | 0.1                      | 21              |
| MM3Z30W  | 2R      | 28                         | 30      | 32      | 2                | 80  | 0.1                      | 23              |
| MM3Z33W  | 2X      | 31                         | 33      | 35      | 2                | 80  | 0.1                      | 25              |
| MM3Z36W  | 2Y      | 34                         | 36      | 38      | 2                | 90  | 0.1                      | 27              |
| MM3Z39W  | 2Z      | 37                         | 39      | 41      | 2                | 100   | 0.1                      | 30              |
| MM3Z43W  | 3A      | 40                         | 43      | 46      | 2                | 130   | 0.1                      | 33              |
| MM3Z47W  | 3B      | 44                         | 47      | 50      | 2                | 150   | 0.1                      | 36              |
| MM3Z51W  | 3C      | 48                         | 51      | 54      | 2                | 180   | 0.1                      | 39              |
| MM3Z56W  | 3D      | 52                         | 56      | 60      | 2                | 200   | 0.1                      | 43              |
| MM3Z62W  | 3E      | 58                         | 62      | 66      | 2                | 215   | 0.1                      | 47              |
| MM3Z68W  | 3F      | 64                         | 68      | 72      | 2                | 240   | 0.1                      | 52              |
| MM3Z75W  | 3H      | 70                         | 75      | 79      | 2                | 265   | 0.1                      | 56              |