

# MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

## Zener Voltage Regulators

### 500 mW SOD-123 Surface Mount

Three complete series of Zener diodes are offered in the convenient, surface mount plastic SOD-123 package. These devices provide a convenient alternative to the leadless 34-package style. Zener voltage in this series are specified with device junction in thermal equilibrium.

#### Features

- 500 mW Rating on FR-4 or FR-5 Board
- Wide Zener Reverse Voltage Range – 2.4 V to 110 V @ Thermal Equilibrium\*
- Package Designed for Optimal Automated Board Assembly
- Small Package Size for High Density Applications
- General Purpose, Medium Current
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q101 Qualified and PPAP Capable
- These are Pb-Free Devices\*

#### Mechanical Characteristics:

**CASE:** Void-free, transfer-molded, thermosetting plastic case

**FINISH:** Corrosion resistant finish, easily solderable

**MAXIMUM CASE TEMPERATURE FOR SOLDERING PURPOSES:**

260°C for 10 Seconds

**POLARITY:** Cathode indicated by polarity band

**FLAMMABILITY RATING:** UL 94 V-0

#### MAXIMUM RATINGS

| Rating                                                                                                            | Symbol          | Max         | Units                      |
|-------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------|
| Total Power Dissipation on FR-5 Board,<br>(Note 1) @ $T_L = 75^\circ\text{C}$<br>Derated above $75^\circ\text{C}$ | $P_D$           | 500<br>6.7  | mW<br>mW/ $^\circ\text{C}$ |
| Thermal Resistance, Junction-to-Ambient<br>(Note 2)                                                               | $R_{\theta JA}$ | 340         | $^\circ\text{C/W}$         |
| Thermal Resistance, Junction-to-Lead<br>(Note 2)                                                                  | $R_{\theta JL}$ | 150         | $^\circ\text{C/W}$         |
| Junction and Storage Temperature Range                                                                            | $T_J, T_{stg}$  | -55 to +150 | $^\circ\text{C}$           |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. FR-5 = 3.5 X 1.5 inches, using the minimum recommended footprint.
2. Thermal Resistance measurement obtained via infrared Scan Method.

\*For additional info on thermal equilibrium, please download, ON Semiconductor TVS/Zener Theory and Design Considerations Handbook, HBD854/D.

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

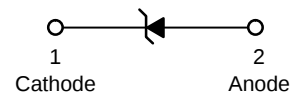


ON Semiconductor®

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SOD-123  
CASE 425  
STYLE 1



#### MARKING DIAGRAM



xx = Device Code (Refer to page 3)

M = Date Code

▪ = Pb-Free Package

(Note: Microdot may be in either location)

#### ORDERING INFORMATION

| Device                          | Package              | Shipping <sup>†</sup>   |
|---------------------------------|----------------------|-------------------------|
| MMSZ52xxBT1G,<br>SZMMSZ52xxBT1G | SOD-123<br>(Pb-Free) | 3,000 /<br>Tape & Reel  |
| MMSZ52xxCT1G,<br>SZMMSZ52xxCT1G | SOD-123<br>(Pb-Free) | 3,000 /<br>Tape & Reel  |
| MMSZ52xxBT3G,<br>SZMMSZ52xxBT3G | SOD-123<br>(Pb-Free) | 10,000 /<br>Tape & Reel |
| MMSZ52xxCT3G,<br>SZMMSZ52xxCT3G | SOD-123<br>(Pb-Free) | 10,000 /<br>Tape & Reel |

<sup>†</sup>For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

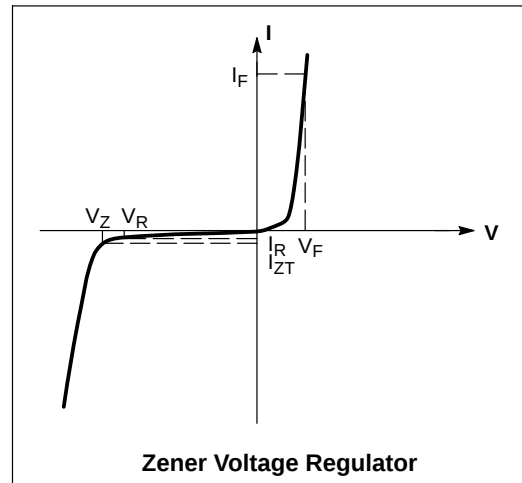
#### DEVICE MARKING INFORMATION

See specific marking information in the device marking column of the Electrical Characteristics table on page 3 of this data sheet.

## MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.95\text{ V Max. @ } I_F = 10\text{ mA}$ )

| Symbol   | Parameter                          |
|----------|------------------------------------|
| $V_Z$    | Reverse Zener Voltage @ $I_{ZT}$   |
| $I_{ZT}$ | Reverse Current                    |
| $Z_{ZT}$ | Maximum Zener Impedance @ $I_{ZT}$ |
| $I_{ZK}$ | Reverse Current                    |
| $Z_{ZK}$ | Maximum Zener Impedance @ $I_{ZK}$ |
| $I_R$    | Reverse Leakage Current @ $V_R$    |
| $V_R$    | Reverse Voltage                    |
| $I_F$    | Forward Current                    |
| $V_F$    | Forward Voltage @ $I_F$            |



## MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

**5% TOLERANCE FG ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.9\text{ V Max.}$  @  $I_F = 10\text{ mA}$ )

| Device*          | Device Marking | Zener Voltage (Notes 3 and 4) |     |       |                   | Zener Impedance (Note 5)          |                                   |      | Leakage Current                 |       |
|------------------|----------------|-------------------------------|-----|-------|-------------------|-----------------------------------|-----------------------------------|------|---------------------------------|-------|
|                  |                | V <sub>Z</sub> (Volts)        |     |       | @ I <sub>ZT</sub> | Z <sub>ZT</sub> @ I <sub>ZT</sub> | Z <sub>ZK</sub> @ I <sub>ZK</sub> |      | I <sub>R</sub> @ V <sub>R</sub> |       |
|                  |                | Min                           | Nom | Max   | mA                | Ω                                 | Ω                                 | mA   | μA                              | Volts |
| MMSZ5221BT1G     | C1             | 2.28                          | 2.4 | 2.52  | 20                | 30                                | 1200                              | 0.25 | 100                             | 1     |
| MMSZ5222BT1G     | C2             | 2.38                          | 2.5 | 2.63  | 20                | 30                                | 1250                              | 0.25 | 100                             | 1     |
| MMSZ5223BT1G     | C3             | 2.57                          | 2.7 | 2.84  | 20                | 30                                | 1300                              | 0.25 | 75                              | 1     |
| MMSZ5224BT1G     | C4             | 2.66                          | 2.8 | 2.94  | 20                | 30                                | 1400                              | 0.25 | 75                              | 1     |
| MMSZ5225BT1G     | C5             | 2.85                          | 3.0 | 3.15  | 20                | 29                                | 1600                              | 0.25 | 50                              | 1     |
| MMSZ5226BT1G     | D1             | 3.14                          | 3.3 | 3.47  | 20                | 28                                | 1600                              | 0.25 | 25                              | 1     |
| MMSZ5227BT1G     | D2             | 3.42                          | 3.6 | 3.78  | 20                | 24                                | 1700                              | 0.25 | 15                              | 1     |
| MMSZ5228BT1G     | D3             | 3.71                          | 3.9 | 4.10  | 20                | 23                                | 1900                              | 0.25 | 10                              | 1     |
| MMSZ5229BT1G     | D4             | 4.09                          | 4.3 | 4.52  | 20                | 22                                | 2000                              | 0.25 | 5                               | 1     |
| MMSZ5230BT1G     | D5             | 4.47                          | 4.7 | 4.94  | 20                | 19                                | 1900                              | 0.25 | 5                               | 2     |
| MMSZ5231BT1G     | E1             | 4.85                          | 5.1 | 5.36  | 20                | 17                                | 1600                              | 0.25 | 5                               | 2     |
| MMSZ5232BT1G     | E2             | 5.32                          | 5.6 | 5.88  | 20                | 11                                | 1600                              | 0.25 | 5                               | 3     |
| MMSZ5233BT1G     | E3             | 5.70                          | 6.0 | 6.30  | 20                | 7                                 | 1600                              | 0.25 | 5                               | 3.5   |
| MMSZ5234BT1G     | E4             | 5.89                          | 6.2 | 6.51  | 20                | 7                                 | 1000                              | 0.25 | 5                               | 4     |
| MMSZ5235BT1G     | E5             | 6.46                          | 6.8 | 7.14  | 20                | 5                                 | 750                               | 0.25 | 3                               | 5     |
| MMSZ5236BT1G     | F1             | 7.13                          | 7.5 | 7.88  | 20                | 6                                 | 500                               | 0.25 | 3                               | 6     |
| MMSZ5237BT1G     | F2             | 7.79                          | 8.2 | 8.61  | 20                | 8                                 | 500                               | 0.25 | 3                               | 6.5   |
| MMSZ5238BT1G     | F3             | 8.27                          | 8.7 | 9.14  | 20                | 8                                 | 600                               | 0.25 | 3                               | 6.5   |
| MMSZ5239BT1G     | F4             | 8.65                          | 9.1 | 9.56  | 20                | 10                                | 600                               | 0.25 | 3                               | 7     |
| MMSZ5240BT1G     | F5             | 9.50                          | 10  | 10.50 | 20                | 17                                | 600                               | 0.25 | 3                               | 8     |
| MMSZ5241BT1G     | H1             | 10.45                         | 11  | 11.55 | 20                | 22                                | 600                               | 0.25 | 2                               | 8.4   |
| MMSZ5242BT1G/T3G | H2             | 11.40                         | 12  | 12.60 | 20                | 30                                | 600                               | 0.25 | 1                               | 9.1   |
| MMSZ5243BT1G     | H3             | 12.35                         | 13  | 13.65 | 9.5               | 13                                | 600                               | 0.25 | 0.5                             | 9.9   |
| MMSZ5244BT1G     | H4             | 13.30                         | 14  | 14.70 | 9.0               | 15                                | 600                               | 0.25 | 0.1                             | 10    |
| MMSZ5245BT1G     | H5             | 14.25                         | 15  | 15.75 | 8.5               | 16                                | 600                               | 0.25 | 0.1                             | 11    |
| MMSZ5246BT1G     | J1             | 15.20                         | 16  | 16.80 | 7.8               | 17                                | 600                               | 0.25 | 0.1                             | 12    |
| MMSZ5247BT1G     | J2             | 16.15                         | 17  | 17.85 | 7.4               | 19                                | 600                               | 0.25 | 0.1                             | 13    |
| MMSZ5248BT1G     | J3             | 17.10                         | 18  | 18.90 | 7.0               | 21                                | 600                               | 0.25 | 0.1                             | 14    |
| MMSZ5249BT1G     | J4             | 18.05                         | 19  | 19.95 | 6.6               | 23                                | 600                               | 0.25 | 0.1                             | 14    |
| MMSZ5250BT1G     | J5             | 19.00                         | 20  | 21.00 | 6.2               | 25                                | 600                               | 0.25 | 0.1                             | 15    |
| MMSZ5251BT1G     | K1             | 20.90                         | 22  | 23.10 | 5.6               | 29                                | 600                               | 0.25 | 0.1                             | 17    |
| MMSZ5252BT1G     | K2             | 22.80                         | 24  | 25.20 | 5.2               | 33                                | 600                               | 0.25 | 0.1                             | 18    |
| MMSZ5253BT1G     | K3             | 23.75                         | 25  | 26.25 | 5.0               | 35                                | 600                               | 0.25 | 0.1                             | 19    |
| MMSZ5254BT1G     | K4             | 25.65                         | 27  | 28.35 | 4.6               | 41                                | 600                               | 0.25 | 0.1                             | 21    |
| MMSZ5255BT1G     | K5             | 26.60                         | 28  | 29.40 | 4.5               | 44                                | 600                               | 0.25 | 0.1                             | 21    |
| MMSZ5256BT1G     | M1             | 28.50                         | 30  | 31.50 | 4.2               | 49                                | 600                               | 0.25 | 0.1                             | 23    |
| MMSZ5257BT1G     | M2             | 31.35                         | 33  | 34.65 | 3.8               | 58                                | 700                               | 0.25 | 0.1                             | 25    |
| MMSZ5258BT1G/T3G | M3             | 34.20                         | 36  | 37.80 | 3.4               | 70                                | 700                               | 0.25 | 0.1                             | 27    |
| MMSZ5259BT1G     | M4             | 37.05                         | 39  | 40.95 | 3.2               | 80                                | 800                               | 0.25 | 0.1                             | 30    |
| MMSZ5260BT1G     | M5             | 40.85                         | 43  | 45.15 | 3.0               | 93                                | 900                               | 0.25 | 0.1                             | 33    |
| MMSZ5261BT1G     | N1             | 44.65                         | 47  | 49.35 | 2.7               | 105                               | 1000                              | 0.25 | 0.1                             | 36    |
| MMSZ5262BT1G     | N2             | 48.45                         | 51  | 53.55 | 2.5               | 125                               | 1100                              | 0.25 | 0.1                             | 39    |
| MMSZ5263BT1G     | N3             | 53.20                         | 56  | 58.80 | 2.2               | 150                               | 1300                              | 0.25 | 0.1                             | 43    |
| MMSZ5264BT1G     | N4             | 57.00                         | 60  | 63.00 | 2.1               | 170                               | 1400                              | 0.25 | 0.1                             | 46    |
| MMSZ5265BT1G     | N5             | 58.90                         | 62  | 65.10 | 2.0               | 185                               | 1400                              | 0.25 | 0.1                             | 47    |
| MMSZ5266BT1G     | P1             | 64.60                         | 68  | 71.40 | 1.8               | 230                               | 1600                              | 0.25 | 0.1                             | 52    |
| MMSZ5267BT1G     | P2             | 71.25                         | 75  | 78.75 | 1.7               | 270                               | 1700                              | 0.25 | 0.1                             | 56    |
| MMSZ5268BT1G     | P3             | 77.90                         | 82  | 86.10 | 1.5               | 330                               | 2000                              | 0.25 | 0.1                             | 62    |
| MMSZ5269BT1G     | P4             | 82.65                         | 87  | 91.35 | 1.4               | 370                               | 2200                              | 0.25 | 0.1                             | 68    |
| MMSZ5270BT1G     | P5             | 86.45                         | 91  | 95.55 | 1.4               | 400                               | 2300                              | 0.25 | 0.1                             | 69    |
| MMSZ5272BT1G/T3G | R2             | 104.5                         | 110 | 115.5 | 1.1               | 750                               | 3000                              | 0.25 | 0.1                             | 84    |

3. "B" Suffix Type numbers shown have a standard tolerance of  $\pm 5\%$  on the nominal Zener voltages.

4. Nominal Zener voltage is measured with the device junction in thermal equilibrium at  $T_L = 30^\circ\text{C} \pm 1^\circ\text{C}$ .

5.  $Z_{ZT}$  and  $Z_{ZK}$  are measured by dividing the AC voltage drop across the device by the ac current applied.

The specified limits are for  $I_{Z(AC)} = 0.1 I_{Z(dc)}$  with the AC frequency = 1 kHz.

\*Includes SZ-prefix devices where applicable.

## MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

**2% TOLERANCE FG ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted,  $V_F = 0.9\text{ V Max.}$  @  $I_F = 10\text{ mA}$ )

| Device*      | Device Marking | Zener Voltage (Notes 6 and 7) |     |       | Zener Impedance (Note 8) |                     |                     | Leakage Current |                     |
|--------------|----------------|-------------------------------|-----|-------|--------------------------|---------------------|---------------------|-----------------|---------------------|
|              |                | $V_Z$ (Volts)                 |     |       | @ $I_{ZT}$               | $Z_{ZT}$ @ $I_{ZT}$ | $Z_{ZK}$ @ $I_{ZK}$ | $I_R$ @ $V_R$   |                     |
|              |                | Min                           | Nom | Max   | mA                       | $\Omega$            | $\Omega$            | mA              | $\mu\text{A}$ Volts |
| MMSZ5226CT1G | TD             | 3.234                         | 3.3 | 3.366 | 20                       | 28                  | 1600                | 0.25            | 25 1                |
| MMSZ5231CT1G | TG             | 4.998                         | 5.1 | 5.202 | 20                       | 17                  | 1600                | 0.25            | 5 2                 |
| MMSZ5232CT1G | TH             | 5.488                         | 5.6 | 5.712 | 20                       | 11                  | 1600                | 0.25            | 5 3                 |
| MMSZ5245CT1G | TK             | 14.70                         | 15  | 15.30 | 8.5                      | 16                  | 600                 | 0.25            | 0.1 11              |
| MMSZ5248CT1G | TL             | 17.64                         | 18  | 18.36 | 7.0                      | 21                  | 600                 | 0.25            | 0.1 14              |
| MMSZ5250CT1G | TN             | 19.60                         | 20  | 20.40 | 6.2                      | 25                  | 600                 | 0.25            | 0.1 15              |
| MMSZ5252CT1G | TQ             | 23.52                         | 24  | 24.48 | 5.2                      | 33                  | 600                 | 0.25            | 0.1 18              |
| MMSZ5256CT1G | TW             | 29.40                         | 30  | 30.60 | 4.2                      | 49                  | 600                 | 0.25            | 0.1 23              |
| MMSZ5258CT1G | TX             | 35.28                         | 36  | 36.72 | 3.4                      | 70                  | 700                 | 0.25            | 0.1 27              |

6. "C" Suffix Type numbers shown have a standard tolerance of  $\pm 2\%$  on the nominal Zener voltages.

7. Nominal Zener voltage is measured with the device junction in thermal equilibrium at  $T_L = 30^\circ\text{C} \pm 1^\circ\text{C}$ .

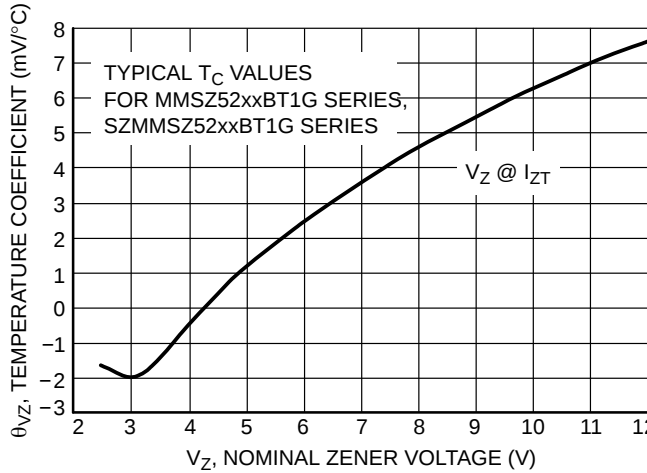
8.  $Z_{ZT}$  and  $Z_{ZK}$  are measured by dividing the AC voltage drop across the device by the ac current applied.

The specified limits are for  $I_{Z(AC)} = 0.1 I_{Z(dc)}$  with the AC frequency = 1 kHz.

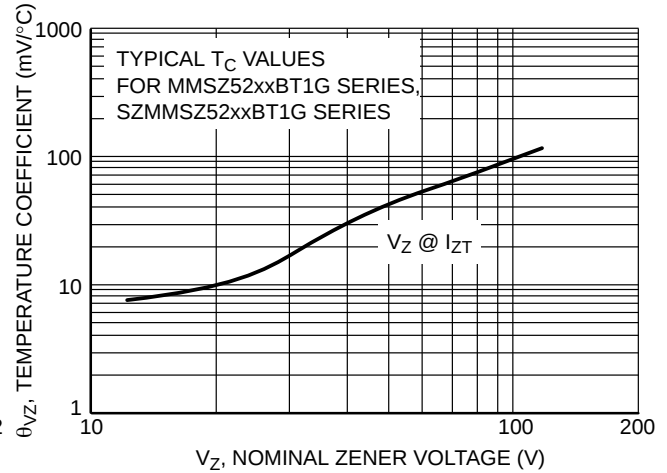
\*Includes SZ-prefix devices where applicable.

# MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

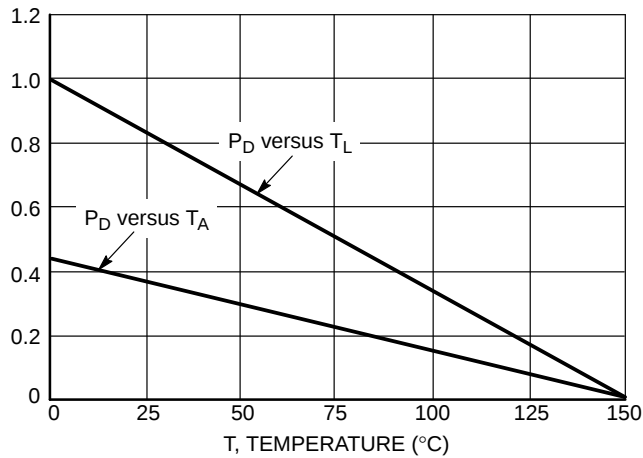
## TYPICAL CHARACTERISTICS



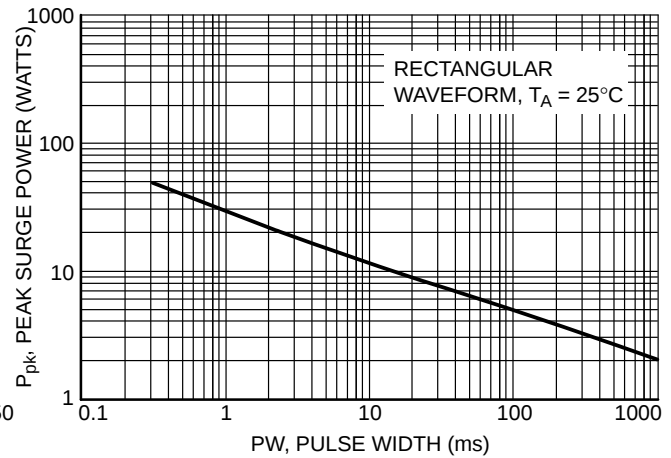
**Figure 1. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



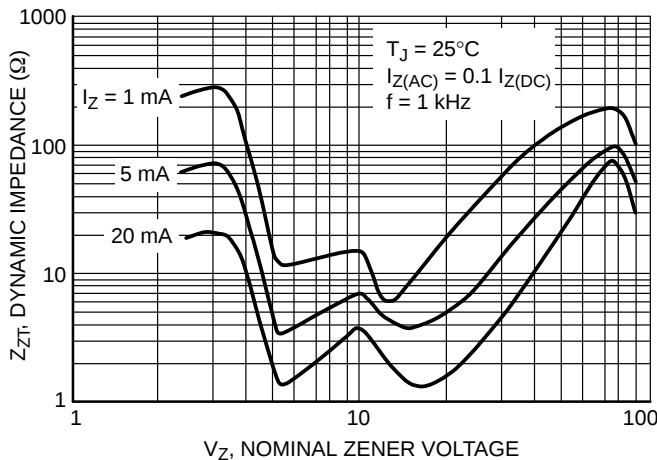
**Figure 2. Temperature Coefficients**  
(Temperature Range -55°C to +150°C)



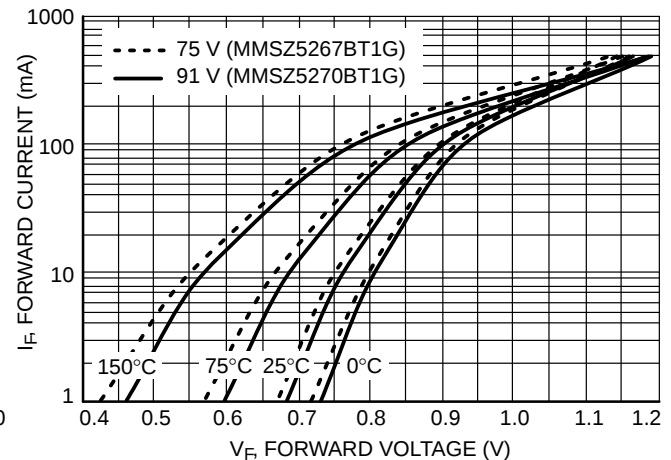
**Figure 3. Steady State Power Derating**



**Figure 4. Maximum Nonrepetitive Surge Power**



**Figure 5. Effect of Zener Voltage on Zener Impedance**



**Figure 6. Typical Forward Voltage**

# MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

## TYPICAL CHARACTERISTICS

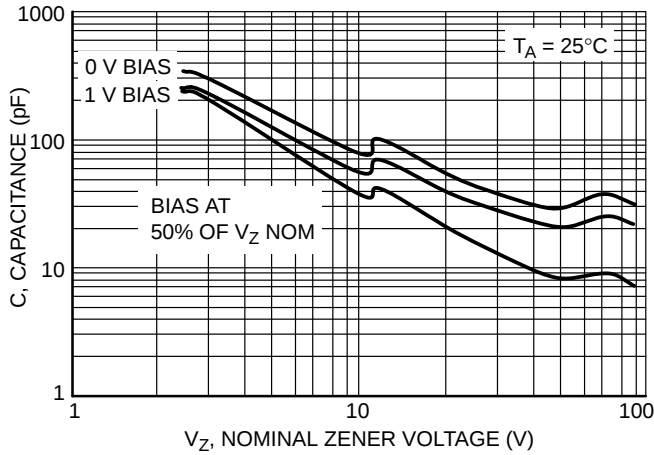


Figure 7. Typical Capacitance

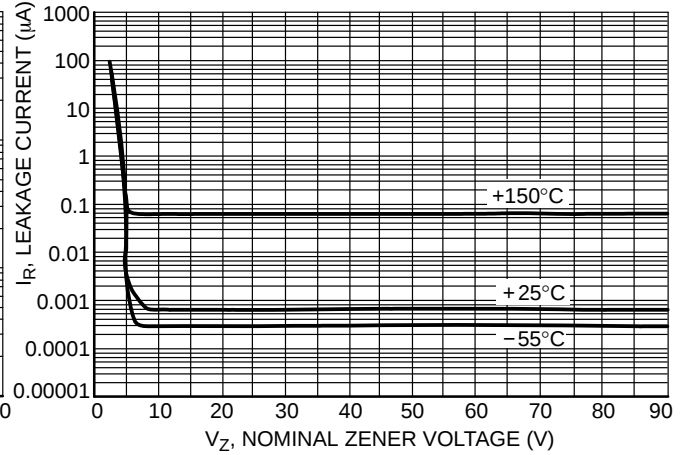


Figure 8. Typical Leakage Current

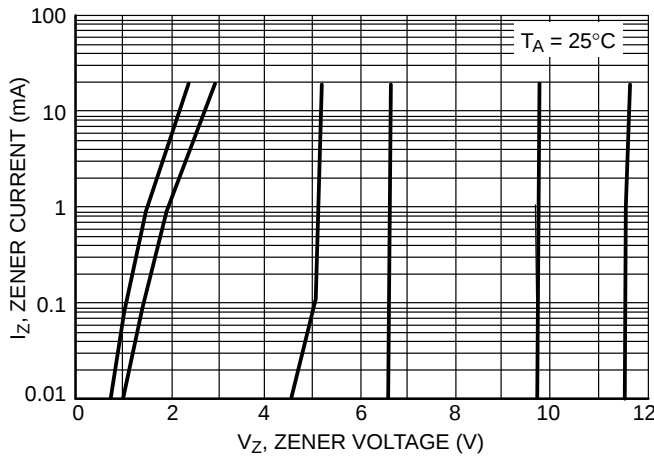


Figure 9. Zener Voltage versus Zener Current  
( $V_Z$  Up to 12 V)

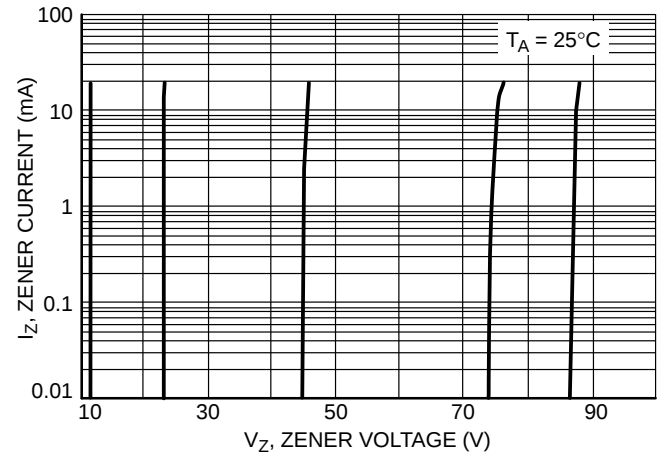


Figure 10. Zener Voltage versus Zener Current  
(12 V to 91 V)

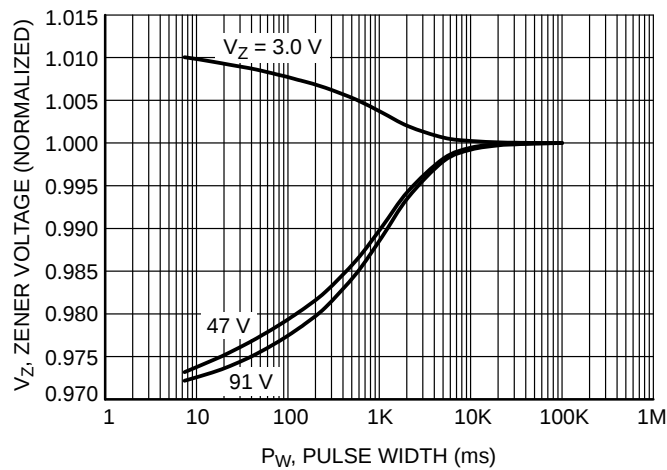
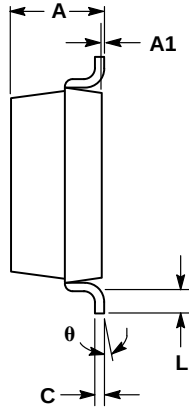
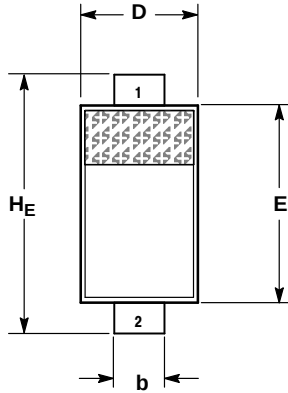


Figure 11. SOD-123 (plastic) 500 Watt Device

# MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

## PACKAGE DIMENSIONS

**SOD-123**  
CASE 425-04  
ISSUE G

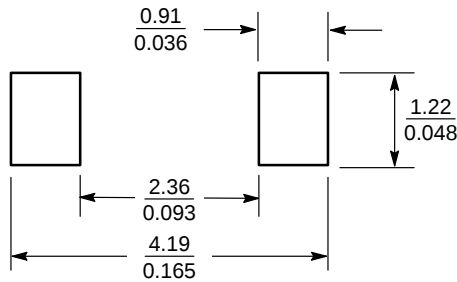


- NOTES:  
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.  
2. CONTROLLING DIMENSION: INCH.

| DIM            | MILLIMETERS |      |      | INCHES |       |       |
|----------------|-------------|------|------|--------|-------|-------|
|                | MIN         | NOM  | MAX  | MIN    | NOM   | MAX   |
| A              | 0.94        | 1.17 | 1.35 | 0.037  | 0.046 | 0.053 |
| A1             | 0.00        | 0.05 | 0.10 | 0.000  | 0.002 | 0.004 |
| b              | 0.51        | 0.61 | 0.71 | 0.020  | 0.024 | 0.028 |
| c              | ---         | ---  | 0.15 | ---    | ---   | 0.006 |
| D              | 1.40        | 1.60 | 1.80 | 0.055  | 0.063 | 0.071 |
| E              | 2.54        | 2.69 | 2.84 | 0.100  | 0.106 | 0.112 |
| H <sub>E</sub> | 3.56        | 3.68 | 3.86 | 0.140  | 0.145 | 0.152 |
| L              | 0.25        | ---  | ---  | 0.010  | ---   | ---   |
| θ              | 0°          | ---  | 10°  | 0°     | ---   | 10°   |

STYLE 1:  
PIN 1. CATHODE  
2. ANODE

## SOLDERING FOOTPRINT\*



SCALE 10:1 (mm/inches)

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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