



MMSZ4691WS SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 6.2 ~ 15 Volts **POWER** 200 mWatts

SOD-323

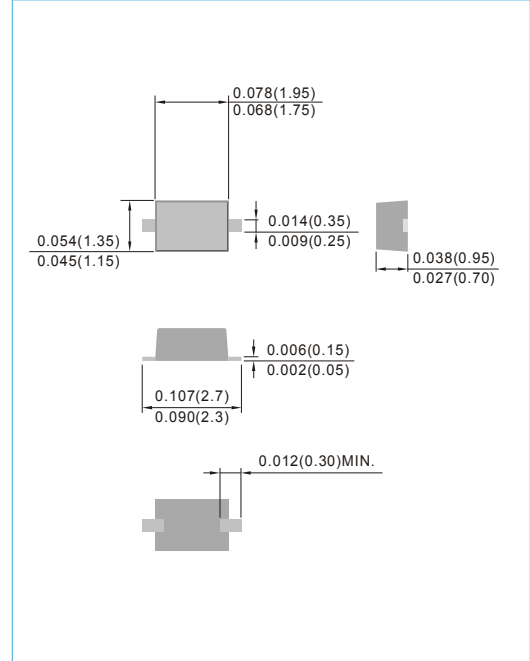
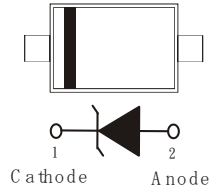
Unit : inch(mm)

FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.0041 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

| Parameter | Symbol | Value | Units |
|--|------------------------------------|-------------|-------|
| Maximum Power Dissipation (Note 1) | P_D | 200 | mW |
| Typical Thermal Resistance , Junction to Ambient (Note 1) Junction to Case (Note 1) | $R_{\theta JA}$ $R_{\theta JC}$ | 625 400 | °C/W |
| Operating Junction Temperature and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | °C |

| Part Number | Nominal Zener Voltage | | | Max. Zener Impedance | Max Reverse Leakage Current | | Marking Code |
|-------------|-----------------------|--------|--------|----------------------|-----------------------------|-------------|--------------|
| | $V_Z @ I_{ZT}$ | | | | I_{ZT} | $I_R @ V_R$ | |
| | Nom. V | Min. V | Max. V | mA | | μA | |
| MMSZ4691WS | 6.2 | 5.89 | 6.51 | 0.05 | 10 | 5 | CA |
| MMSZ4692WS | 6.8 | 6.46 | 7.14 | 0.05 | 10 | 5.1 | CX |
| MMSZ4702WS | 15 | 14.25 | 15.75 | 0.05 | 0.05 | 11.4 | DM |

NOTES:

1. Mounted on 48cm² FR-4 PCB Board.



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RATING AND CHARACTERISTIC CURVES

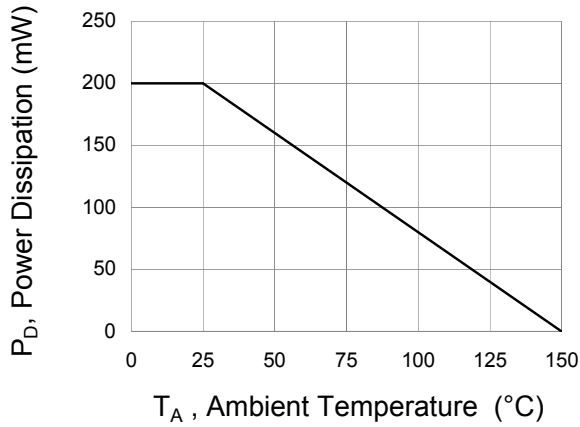


Fig.1 Power Derating Curve

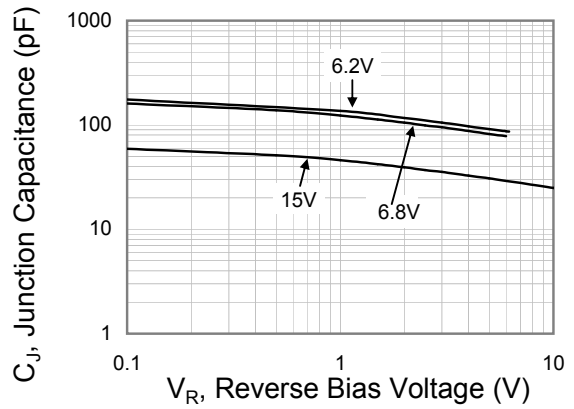


Fig.2 Typical Junction Capacitance

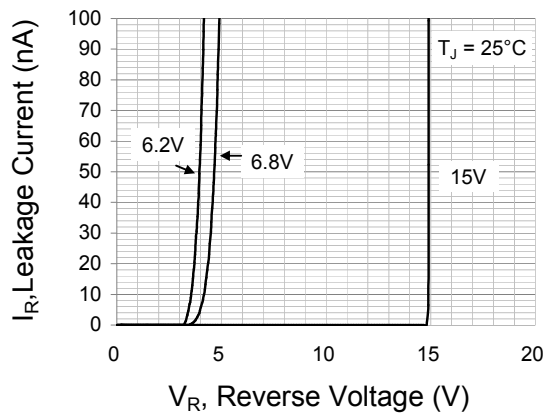


Fig.3 Typical Leakage Characteristics

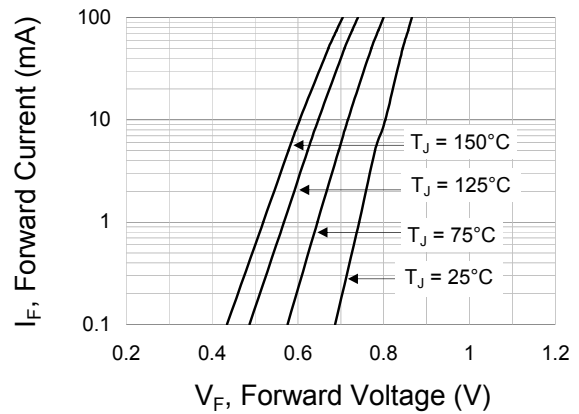


Fig.4 Typical Forward Characteristics

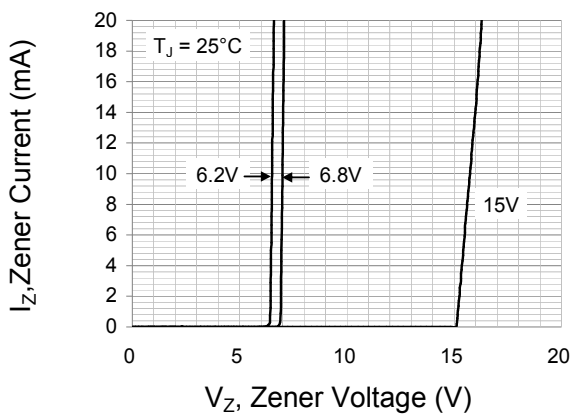


Fig.5 Typical Zener Characteristics

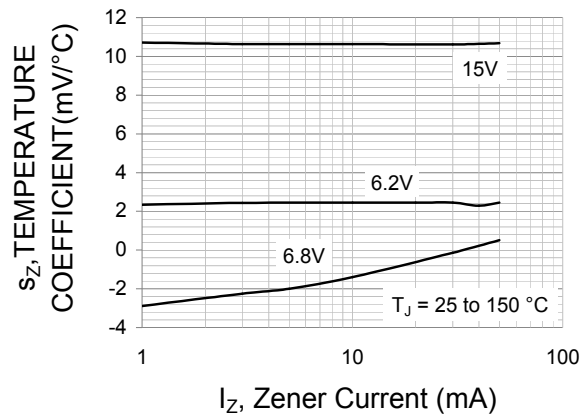


Fig.6 Temperature coefficient as a function of working current; typical values



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RATING AND CHARACTERISTIC CURVES

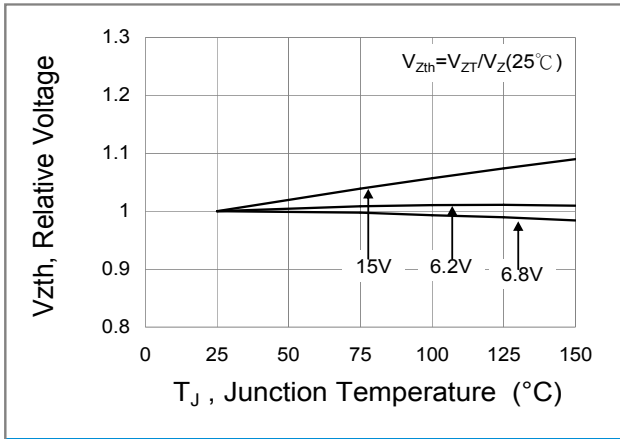
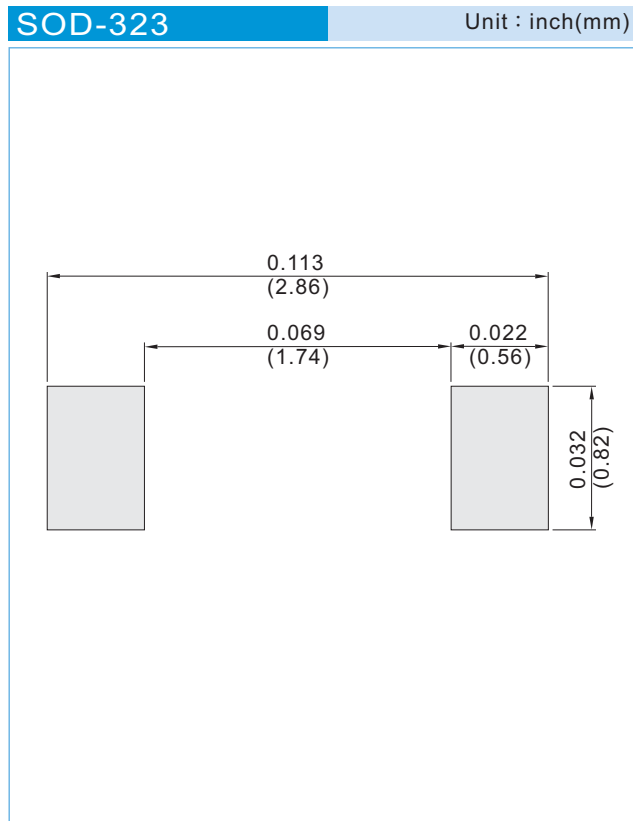


Fig.10 Junction temperature of working voltage vs junction temperature



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 10K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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Part No_packing code_Version

MMSZ4691WS_R1_00001

MMSZ4691WS_R2_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|------------------------|----------------------|-------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| T/B | A | N/A | 0 | HF | 0 | serial number |
| T/R | R | 7" | 1 | RoHS | 1 | serial number |
| B/P | B | 13" | 2 | | | |
| T/P | T | 26mm | X | | | |
| TRR | S | 52mm | Y | | | |
| TRL | L | PBCU | U | | | |
| FORMING | F | PBCD | D | | | |



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