# GS2M-55L

## SURFACE MOUNT GLASS PASSIVATED RECTIFIER

**VOLTAGE：1000V** **CURRENT： 2.0A**

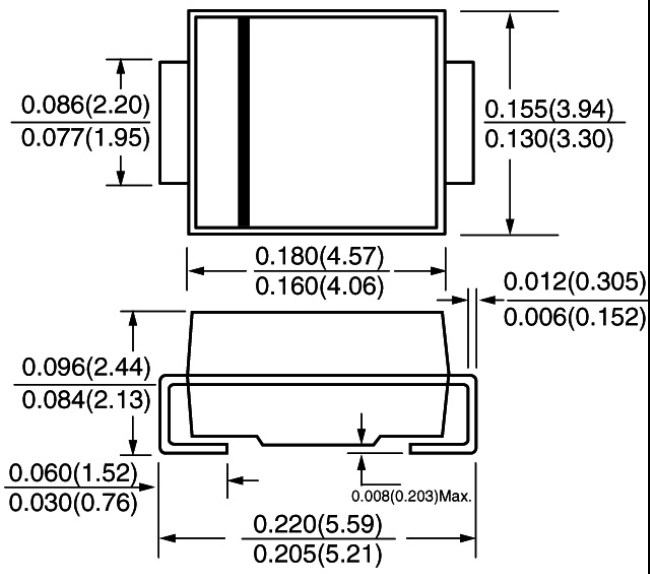
## FEATURE

Ideal for surface mount pick and place application
Low profile package
Built-in strain relief
High surge capability
High temperature soldering guaranteed
260℃/10sec/at terminals

## MECHANICAL DATA

Terminal：Plated leads solderable per
MIL-STD 202E, method 208C
Case：Molded with UL-94 class V-0 recognized Flame
Retardant Epoxy
Polarity：color band denotes cathode

**SMB / DO-214AA**




Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60Hz, resistive or inductive load rating at 25℃, unless otherwise stated)

| | Symbol | GS2M-55L | units |
|---|---|---|---|
| Maximum Recurrent Peak Reverse Voltage | Vrrm | 1000 | V |
| Maximum RMS Voltage | Vrms | 700 | V |
| Maximum DC blocking Voltage | Vdc | 1000 | V |
| Maximum Average Forward Rectified | If(av) | 2.0 | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load | Ifsm | 60.0 | A |
| Maximum Forward Voltage atrated Forward current | Vf | 1.1 | V |
| Maximum DC Reverse Current Ta =25℃<br>at rated DC blocking voltage Ta =125℃ | Ir | 1.0<br>125.0 | μA |
| Typical Junction Capacitance (Note 1) | Cj | 30.0 | pF |
| Typical Thermal Resistance (Note 2) | Rth(jl) | 16.0 | ℃/W |
| Storage and Operating Temperature | Tj, Tstg | -50 to +150 | ℃ |

Note：
1. Measured at 1.0 MHZ and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 7×7mm copper pad area

**Fig. 1 — Forward Current Derating Curve**

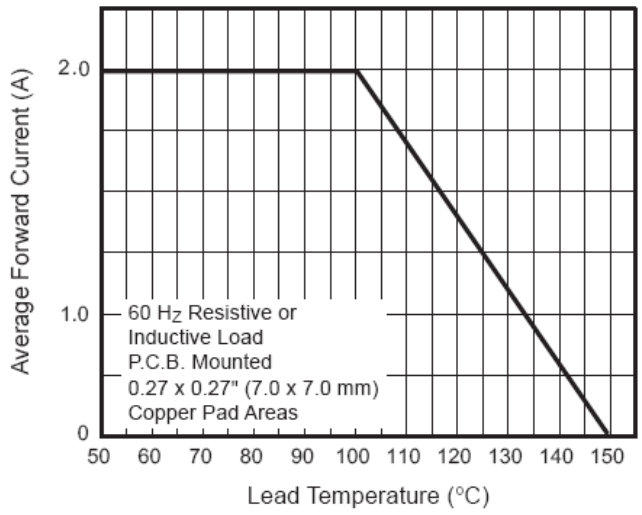



**Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current**

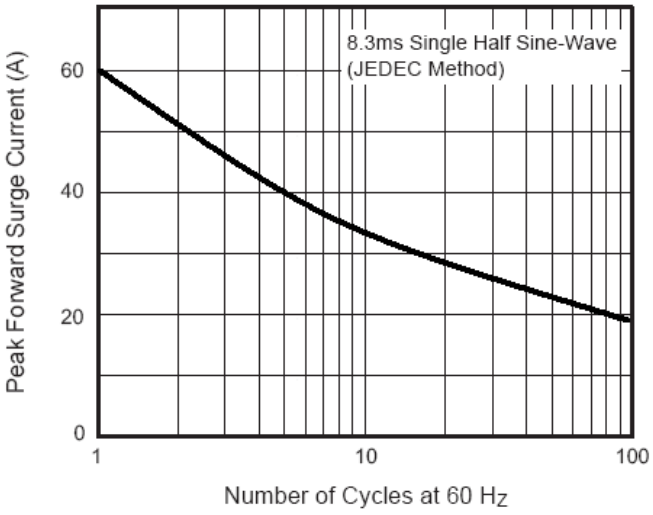



**Fig. 3 — Typical Instantaneous Forward Characteristics**

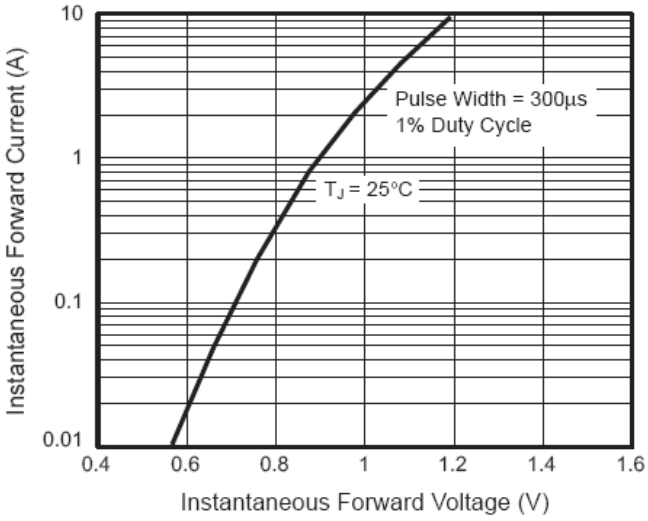



**Fig. 4 — Typical Reverse Characteristics**

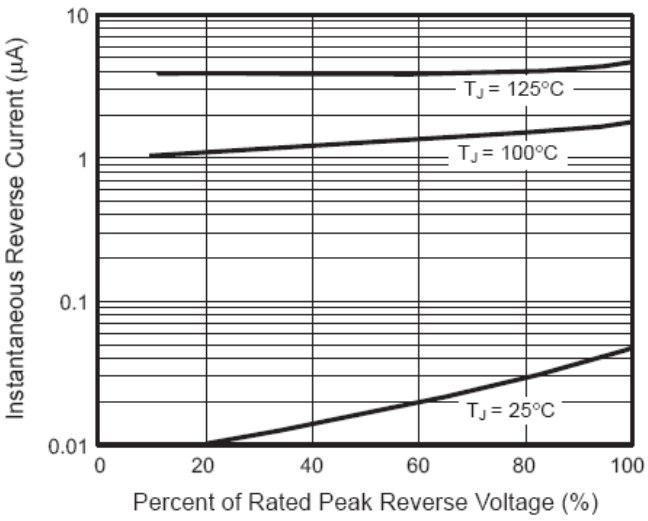



**Fig. 5 — Typical Junction Capacitance**