

**G1A-G1M
1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER**

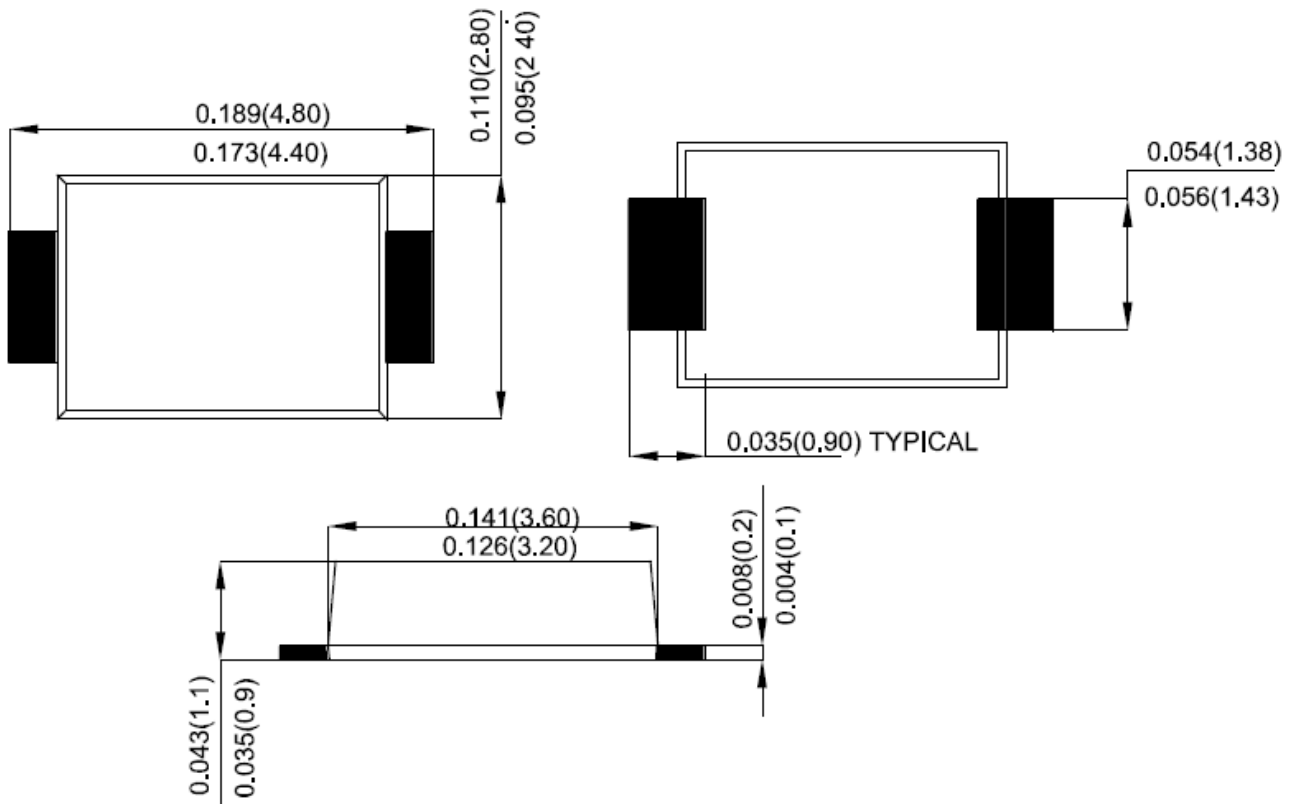
Features:

- For surface mounted application
- Low forward voltage drop
- High current capability
- High reliability
- Classification Rating 94V- 0

Mechanical Data:

- Case: SMAF, Molded plastic
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number

Mechanical Dimensions: In Inches/mm



SMAF

- China - Germany - Korea - Singapore - United States •
- <http://www.smc-diodes.com> - sales@smc-diodes.com •

Maximum Ratings and Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

| Type Number | Symbol | G1A | G1B | G1D | G1G | G1J | G1K | G1M | Unit |
|---|------------------------------------|-------------|-----|-----|-----|-----|-----|------|-----------------------------|
| Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | V_{RRM} V_{RWM} V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average forward rectified output current @ $T_A = 75^{\circ}\text{C}$ | I_O | 1.0 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 35 | | | | | | | A |
| Forward Voltage @ $I_F = 1.0\text{A}$ | V_F | 1.1 | | | | | | | V |
| Peak Reverse Current @ $T_A = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^{\circ}\text{C}$ | I_{RM} | 5.0 500 | | | | | | | μA |
| Typical Junction Capacitance (Note 1) | C_J | 12 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient (Note 2) | $R_{\theta JA}$ | 30 | | | | | | | $^{\circ}\text{C}/\text{W}$ |
| Operating and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | | | $^{\circ}\text{C}$ |
| Case Style | SMAF | | | | | | | | |

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
 2. Resistance from Junction to Ambient at 0.375(9.5mm) lead length .

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

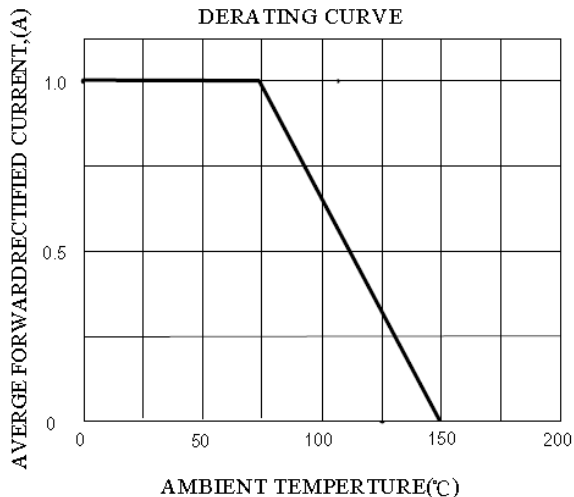


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

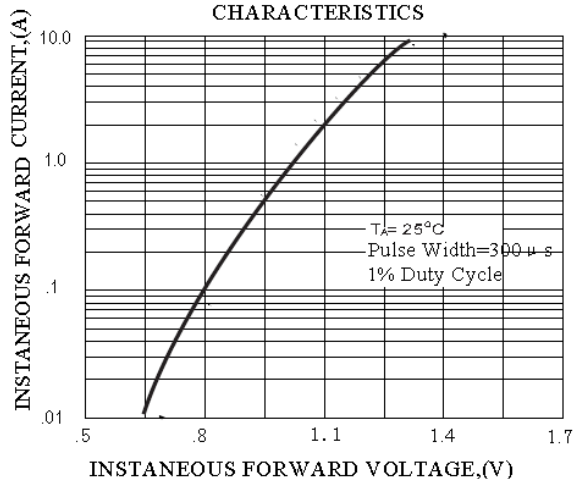


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

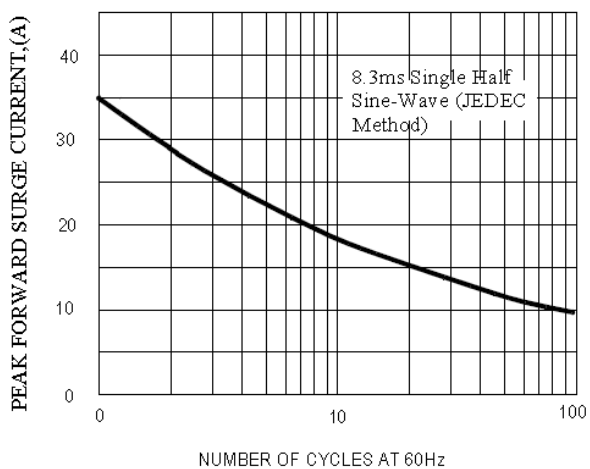
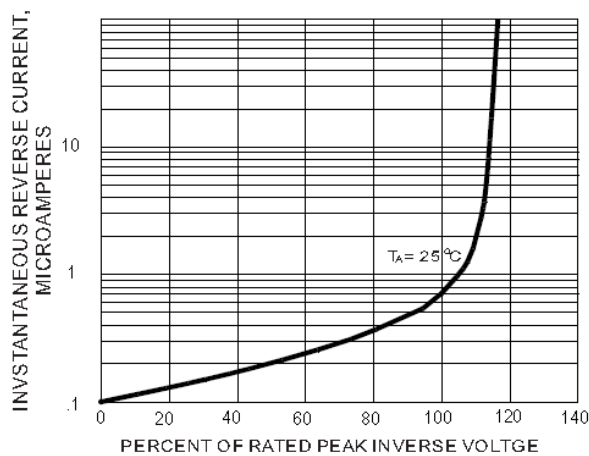


FIG.4-TYPICAL REVERSE CHARACTERISTICS





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