Technical Data *Green Products*
Data Sheet N1731, Rev. -

G1A-G1M
1.0AMP SURFACE MOUNT GLASS RECOVERY RECTIFIER

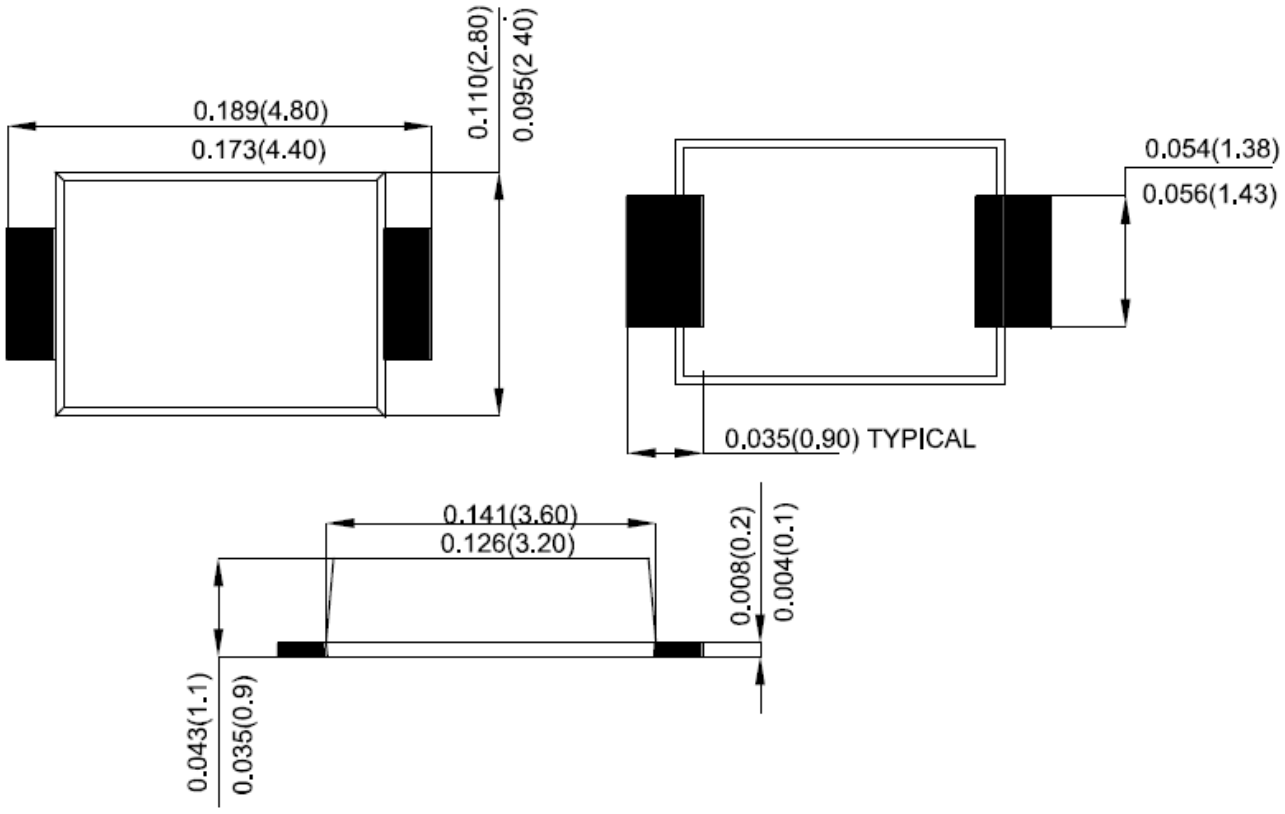
Features:

- **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 dentes cathode end**
- **Mounting Position: Any**
- **Making: Type Number**

Mechanical Dimensions: In Inches/mm



SMAF

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Maximum Ratings and Electrical Characteristics @T_A=25°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°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 =1.0A	V_F	1.1							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°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							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°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 .

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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

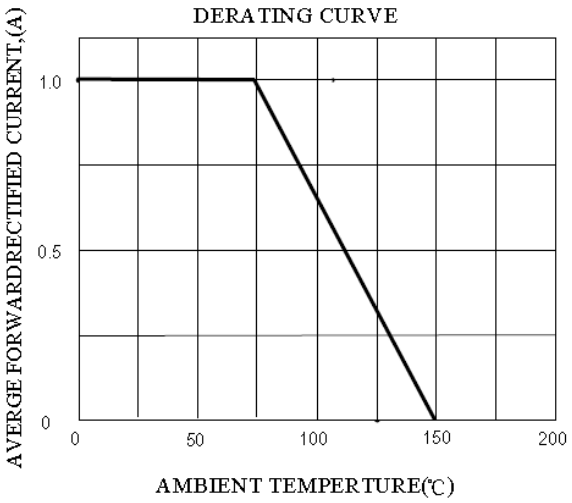


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

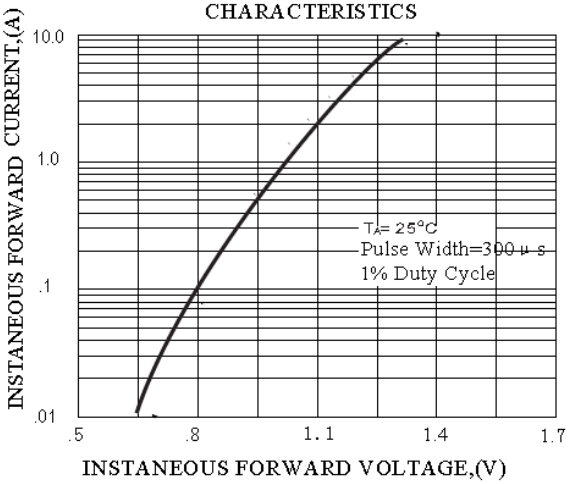


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

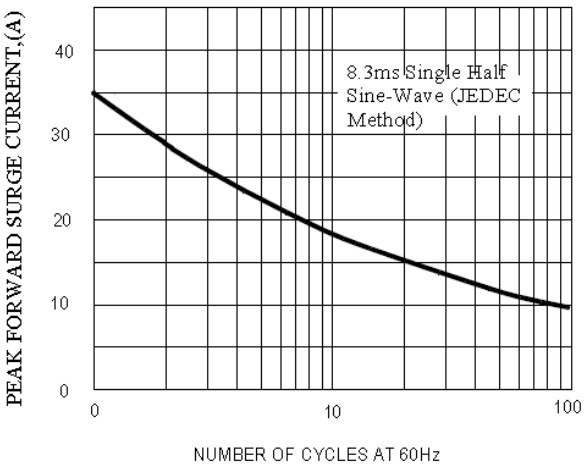
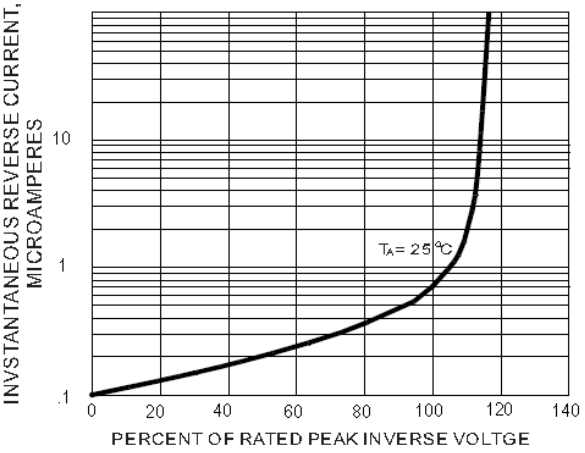


FIG.4-TYPICAL REVERSE CHARACTERISTICS



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