

G1A THRU 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

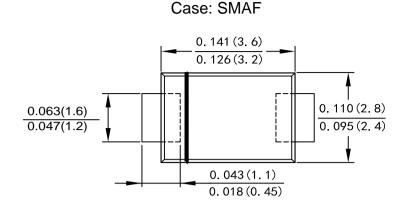
· Case: Molded plastic SMAF

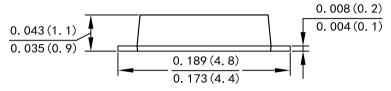
 Terminals: Plated leads solderable per MIL-STD-750, Method 2026 guaranteed

· Polarity: Color band dentes cathode end

Mounting Position: Any

Making: Type Number





Dimiensions in inches and (milimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

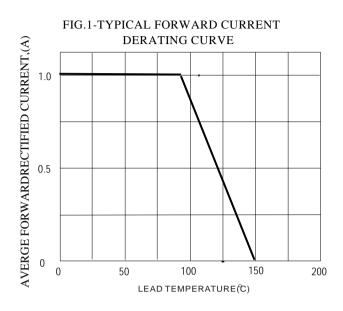
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | |
|--|-----------------|-------------|-----|-----|-----|-----|-----|------|------------------------|
| Type Number | SYMBOL | G1A | G1B | G1D | G1G | G1J | G1K | G1M | Unit |
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | > |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Average Rectified Output Current @T∟=90 °C | İ F(AV) | 1.0 | | | | | | | Α |
| Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | Ігѕм | 30 | | | | | | | Α |
| I ² t Rating for Fusing (t < 8.3ms) | l²t | 3.735 | | | | | | | A ² s |
| Forward Voltage @IF=1.0A | V _{FM} | 1.0 | | | | | | | V |
| Peak Reverse Current @T _A =25°C | | 5.0 50 | | | | | | | uA |
| At Rated DC Blocking Voltage @T _A =125°C | l _R | | | | | | | | |
| Typical Junction Capacitance (Note 1) | С | 12 | | | | | | | pF |
| Typical Thermal Resistance Junction to Ambient(Note 2) | Re JA | 65 | | | | | | | °C/W |
| Operating Temperature Range | TJ | -55 to+150 | | | | | | | $^{\circ}\!\mathbb{C}$ |
| Storage Temperature Range | Tstg | -55 to +150 | | | | | | | ${\mathbb C}$ |

Note:

- 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C
- 2.Device mounted on FR-4 substrate, 1"*1", 2oz, single-sided, PC boards with 0.06"*0.09" copper pad.

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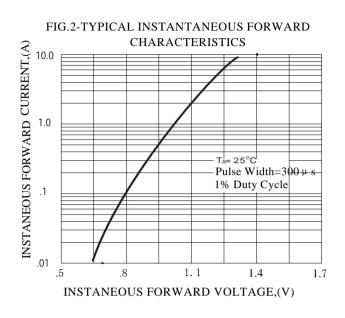
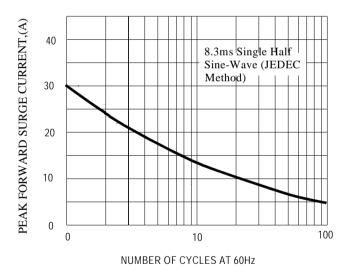


FIG.3-MAXIMUN NON-REPETITIVE FORWARD SURGE CURRENT

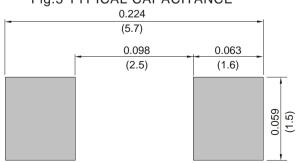


INVSTANTANEOUS REVERSE CURRENT, MICROAMPERES(uA) Ta=125°C 0.1 TA =25 ℃ 0.01 30 40 20 50 60 70 80 90 100

100

FIG.4 TYPICAL REVERSE CHRACTERISTICS

Fig.5 TYPICAL CAPACITANCE



PERCENT OF RATED PEAK INVERSE VOLTGE

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