



GS2GAFC ~ GS2MAFC Series

Surface Mount General Purpose Rectifier

| | | | |
|----------------|-------------------|----------------|------------|
| Voltage | 400~1000 V | Current | 2 A |
|----------------|-------------------|----------------|------------|

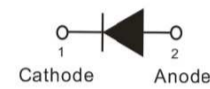
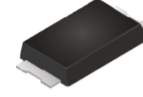
Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case : Molded plastic, SMAF-C
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0012 ounces, 0.034 grams

SMAF-C



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

| PARAMETER | SYMBOL | GS2GAFC | GS2JAFC | GS2KAFC | GS2MAFC | UNIT |
|--|---------------------------|-------------|---------|---------|---------|------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _R | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current | I _{F(AV)} | 2 | | | | A |
| Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load | I _{FSM} | 70 | | | | A |
| Instantaneous Forward Voltage at 2A | V _F | 1.1 | | | | V |
| Reverse Current | I _R | 1 | | | | uA |
| Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4V | C _J | 18 | | | | pF |
| Typical Thermal Resistance | (Note 1) R _{θJL} | 25 | | | | °C/W |
| | (Note 2) R _{θJA} | 150 | | | | |
| Operating Junction Temperature Range | T _J | -55 to +150 | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | °C |

NOTES:

1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area
2. Mounted on a FR4 PCB, single-sided copper, standard footprint



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TYPICAL CHARACTERISTIC CURVES

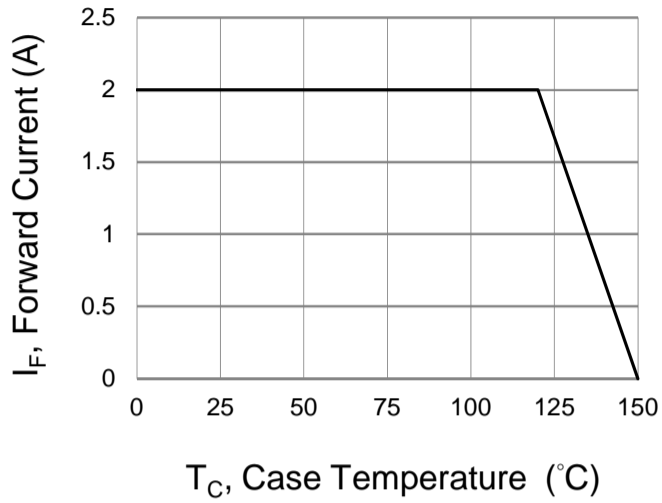


Fig.1 Forward Current Derating Curve

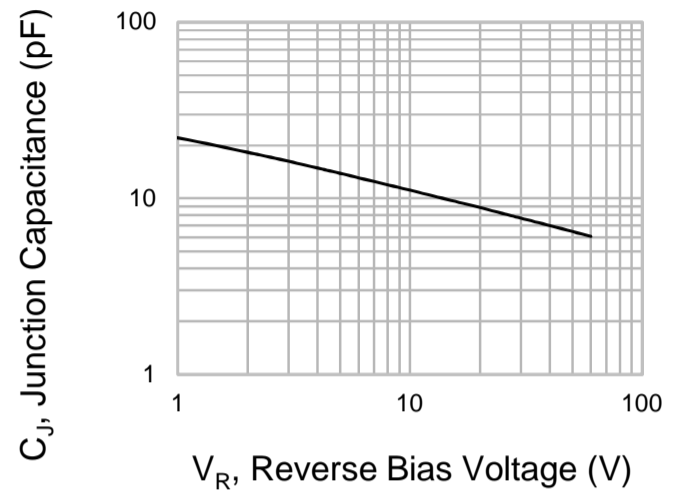


Fig.2 Typical Junction Capacitance

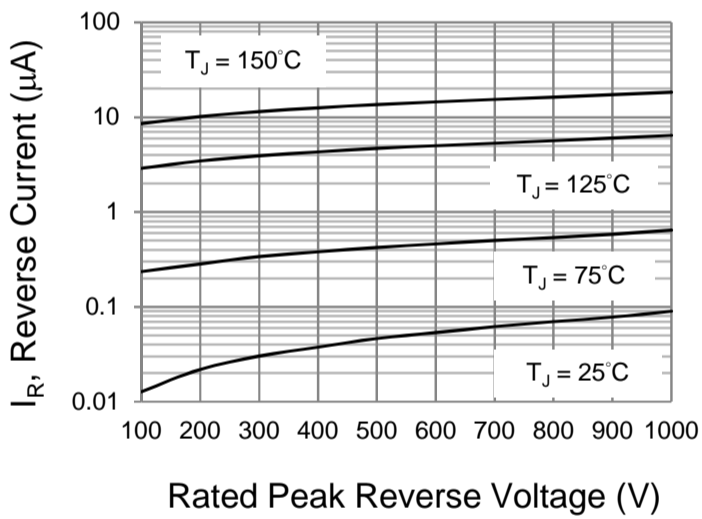


Fig.3 Typical Reverse Characteristics

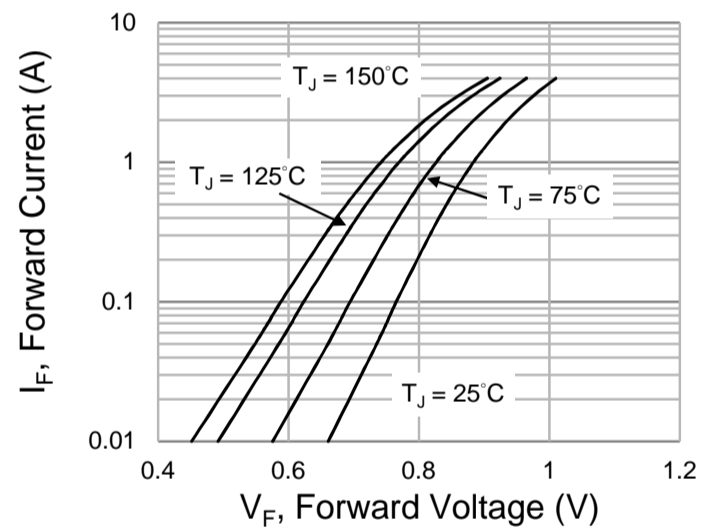


Fig.4 Typical Forward Characteristics



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Part No. Packing Code Version

| Part No. Packing Code | Package Type | Packing Type | Marking | Version |
|-----------------------|--------------|------------------|---------|--------------|
| GS2GAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | GS2G | Halogen free |
| GS2JAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | GS2J | Halogen free |
| GS2KAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | GS2K | Halogen free |
| GS2MAFC_R1_00001 | SMAF-C | 3K pcs / 7" reel | GS2M | Halogen free |

Packaging Information & Mounting Pad Layout

