GS2GAFC ~ GS2MAFC Series

Surface Mount General Purpose Rectifier

Voltage	400~1000 V	Current	2 A

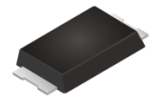
Features

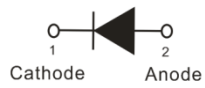
- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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)	$R_{\theta JL}$	25				°C/W
(Note 2)	$R_{\theta JA}$	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 100cm^2 copper pad area
2. Mounted on a FR4 PCB, single-sided copper, standard footprint

GS2GAFC ~ GS2MAFC Series

TYPICAL CHARACTERISTIC CURVES

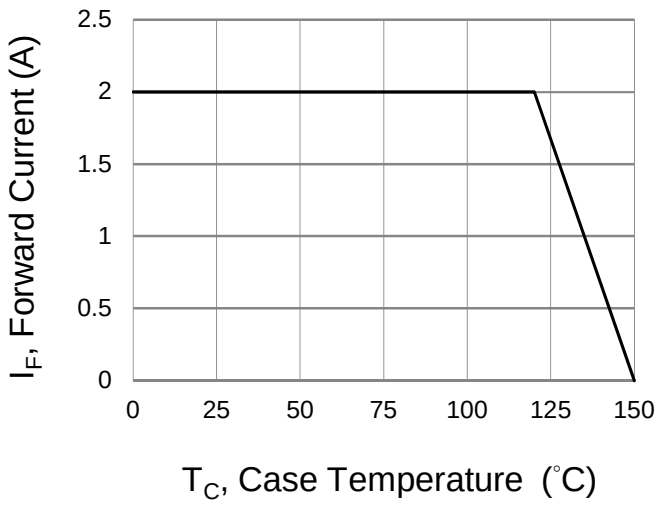


Fig.1 Forward Current Derating Curve

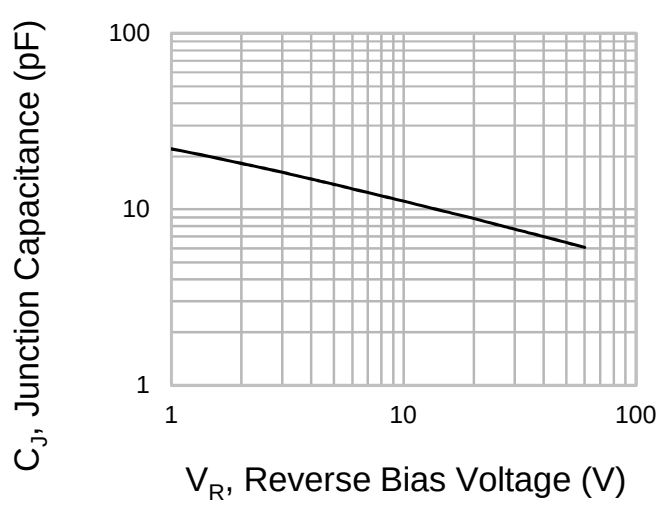


Fig.2 Typical Junction Capacitance

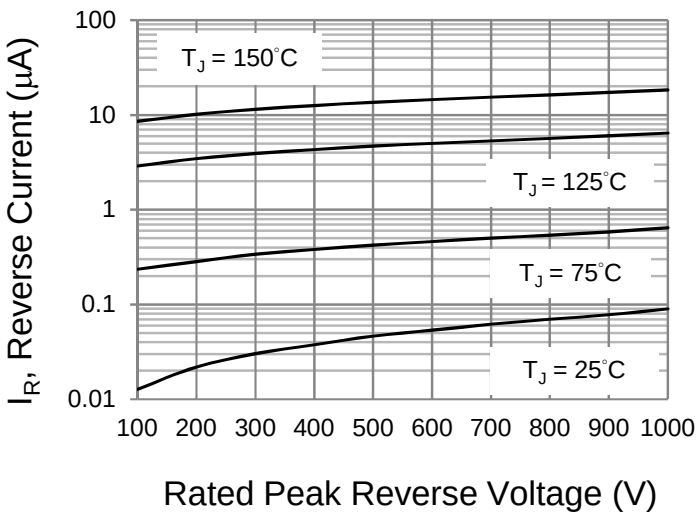


Fig.3 Typical Reverse Characteristics

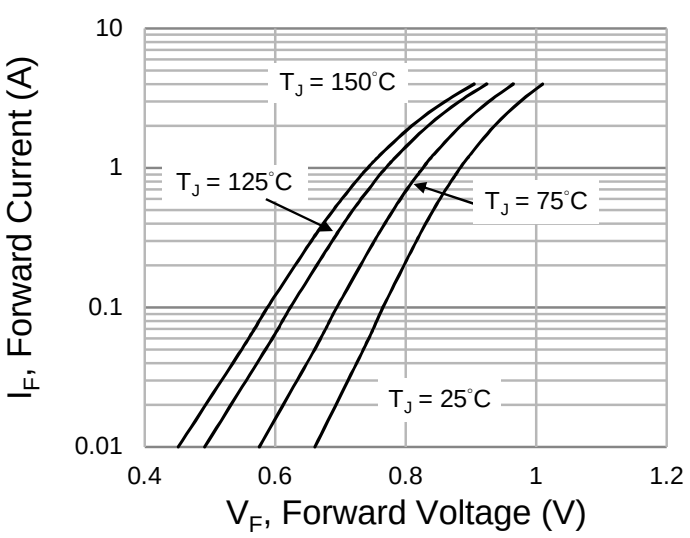


Fig.4 Typical Forward Characteristics

GS2GAFC ~ GS2MAFC Series

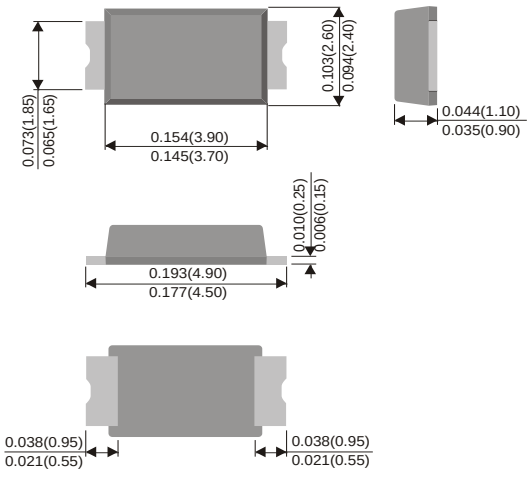
Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS2GAFC	SMAF-C	3K pcs / 7” reel	GS2G
GS2JAFC	SMAF-C	3K pcs / 7” reel	GS2J
GS2KAFC	SMAF-C	3K pcs / 7” reel	GS2K
GS2MAFC	SMAF-C	3K pcs / 7” reel	GS2M

Packaging Information & Mounting Pad Layout

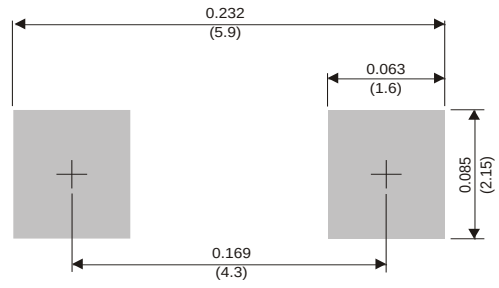
SMAF-C Dimension

Unit: inch(mm)



SMAF-C Pad Layout

Unit: inch(mm)



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