



## GS2GAFC ~ GS2MAFC Series

### Surface Mount General Purpose Rectifier

<b>Voltage</b>	<b>400~1000 V</b>	<b>Current</b>	<b>2 A</b>
----------------	-------------------	----------------	------------

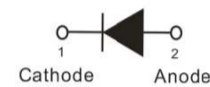
#### Features

- 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<sub>A</sub> = 25°C unless otherwise noted)

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

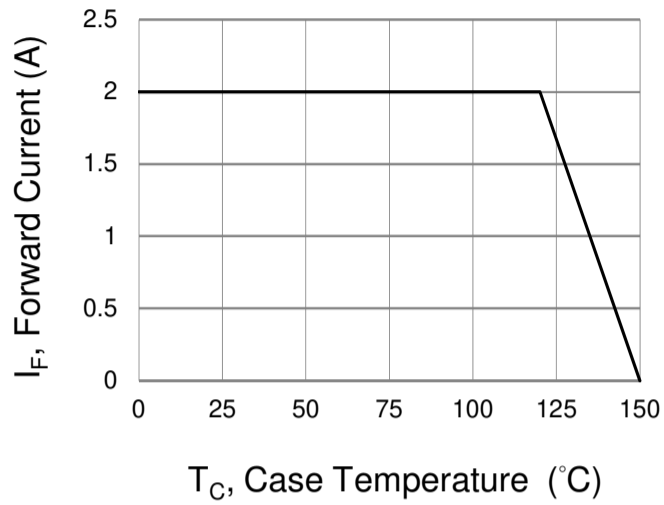
#### NOTES:

1. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area
2. Mounted on a FR4 PCB, single-sided copper, standard footprint

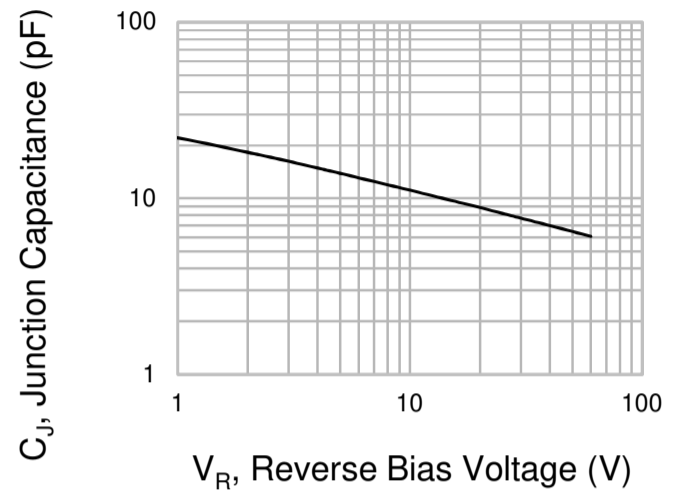


## GS2GAFC ~ GS2MAFC Series

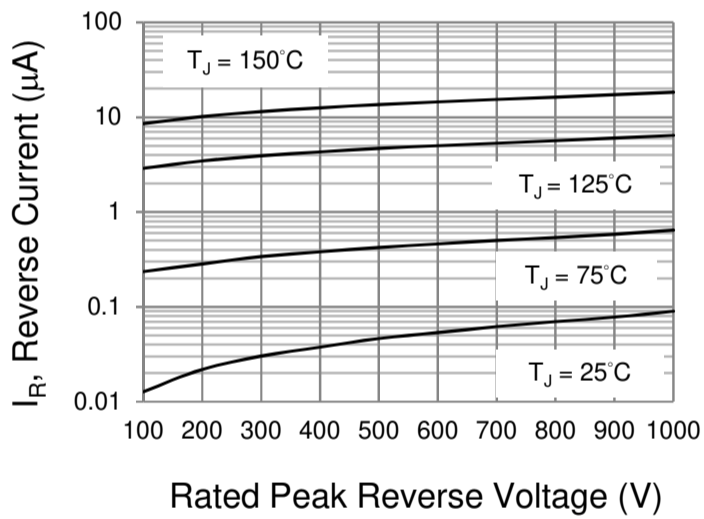
### TYPICAL CHARACTERISTIC CURVES



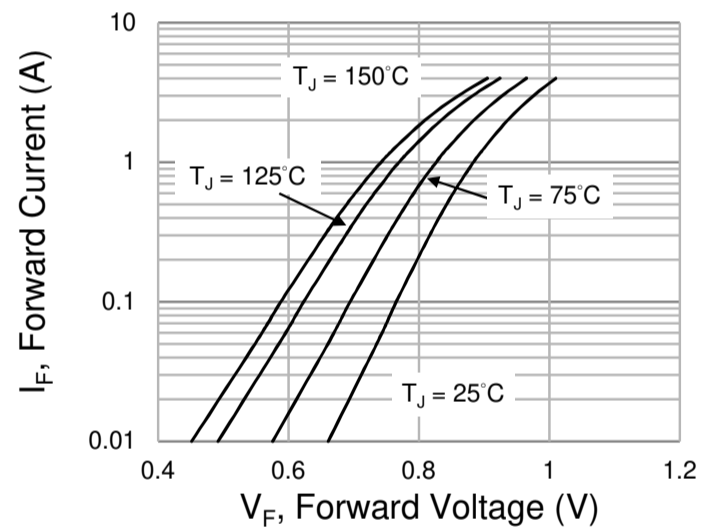
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

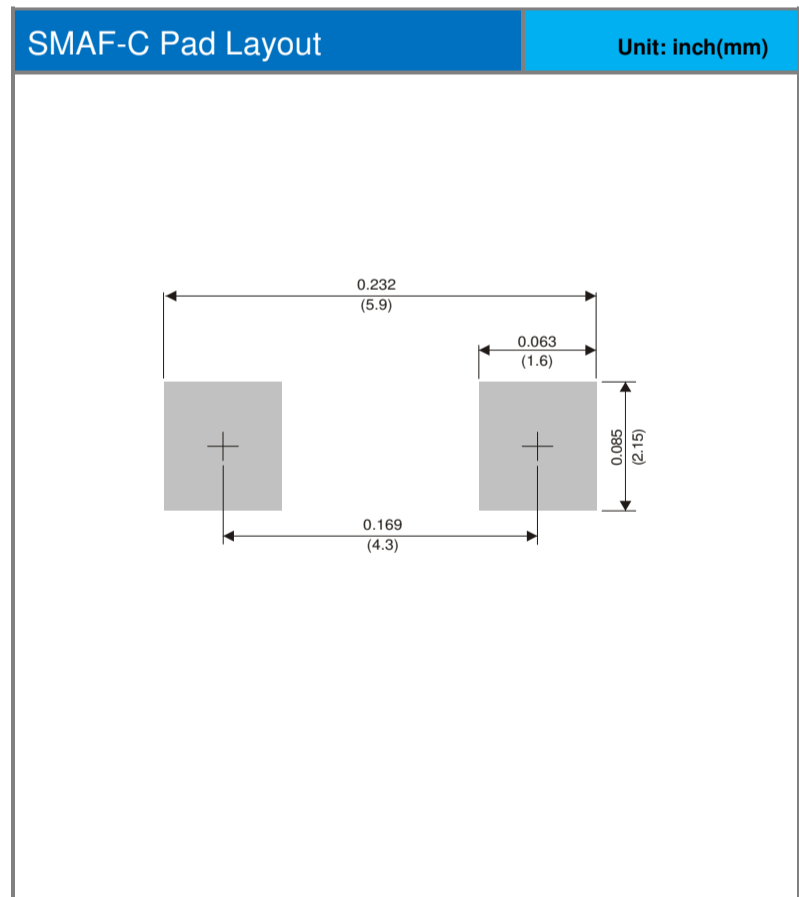
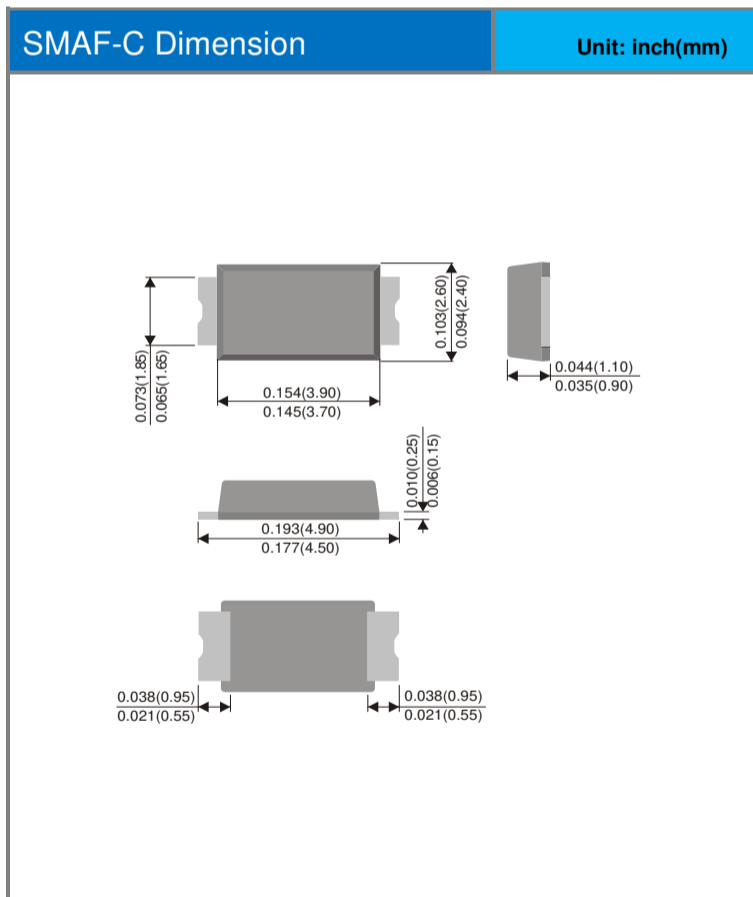


# GS2GAFC ~ GS2MAFC Series

## 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





## GS2GAFC ~ GS2MAFC Series

### Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.