



## GS2GAFC-AU ~ GS2MAFC-AU Series

### Surface Mount General Purpose Rectifier

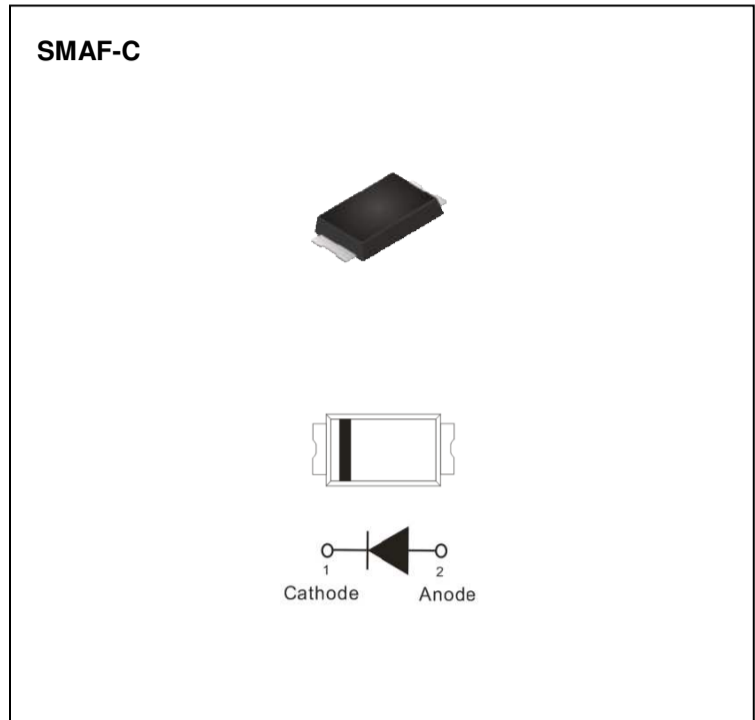
<b>Voltage</b>	<b>400~1000 V</b>	<b>Current</b>	<b>2 A</b>
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#### Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- AEC-Q101 qualified
- 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



### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	GS2GAFC-AU	GS2JAFC-AU	GS2KAFC-AU	GS2MAFC-AU	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

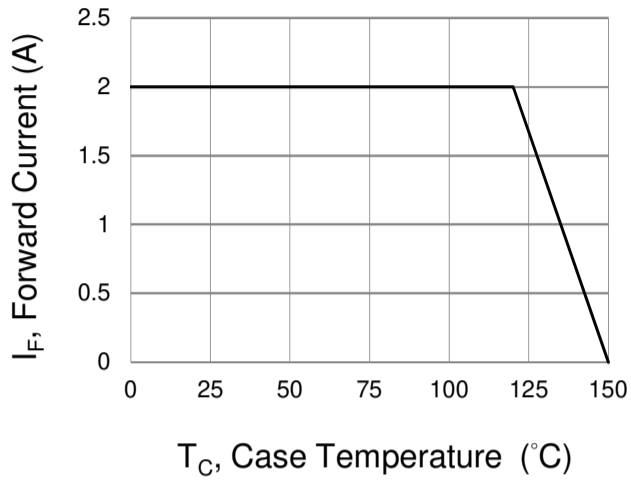
**NOTES:**

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

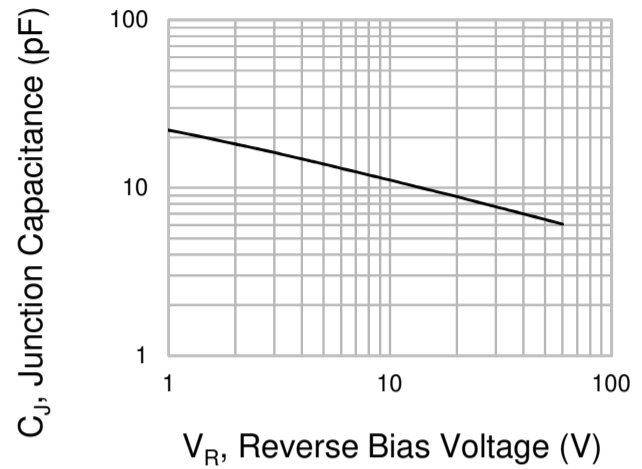


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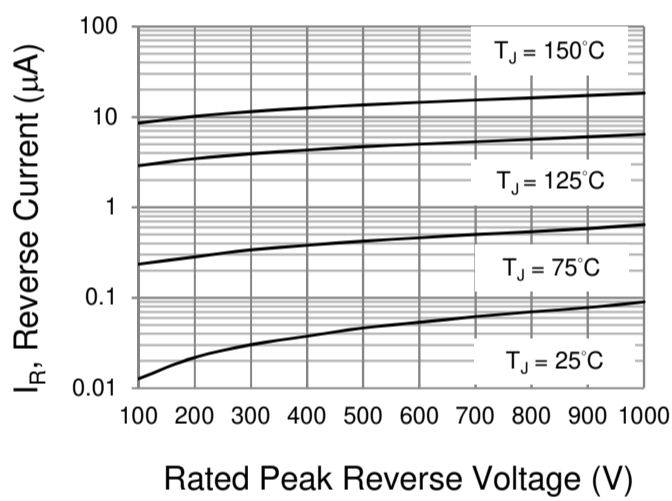
## TYPICAL CHARACTERISTIC CURVES



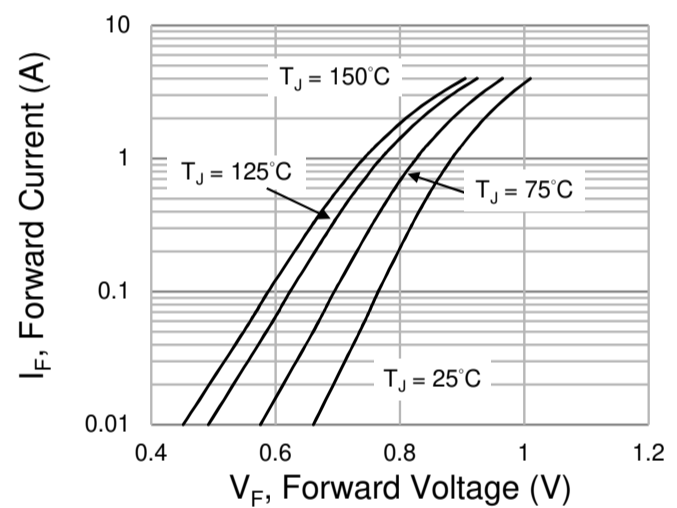
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

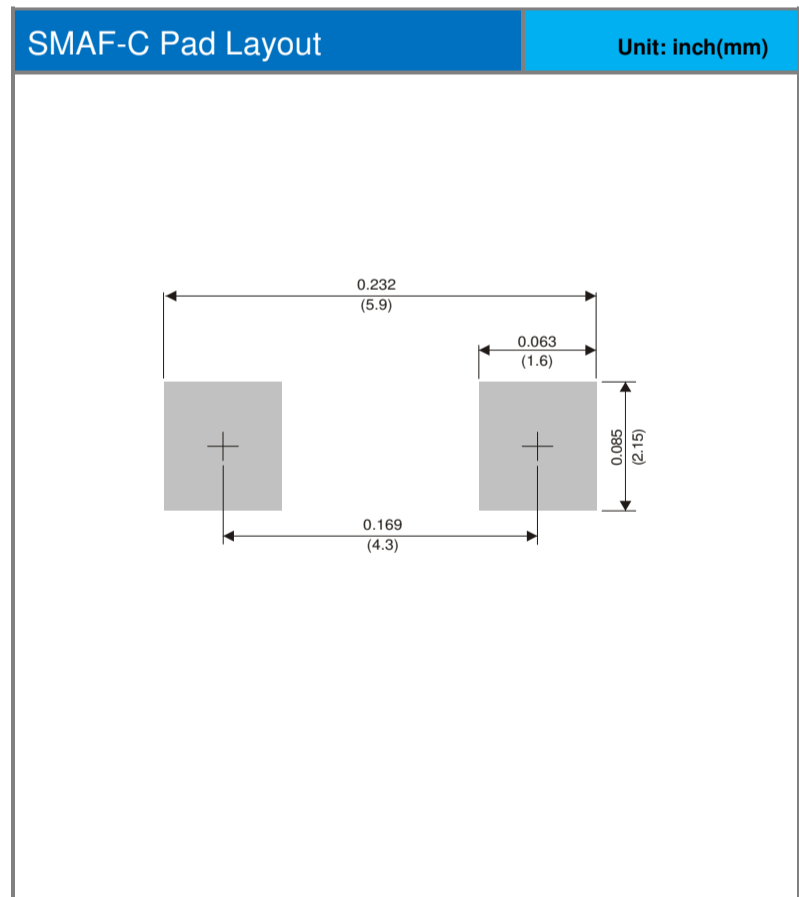
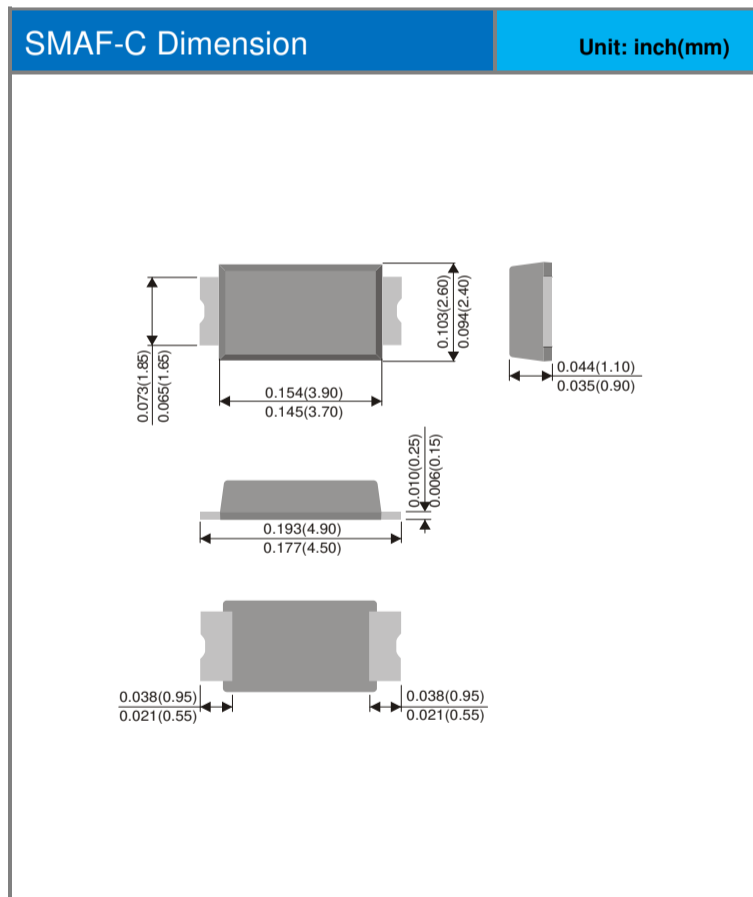


## GS2GAFC-AU ~ GS2MAFC-AU Series

### Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
GS2GAFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	GS2G	Halogen free
GS2JAFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	GS2J	Halogen free
GS2KAFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	GS2K	Halogen free
GS2MAFC-AU_R1_000A1	SMAF-C	3K pcs / 7" reel	GS2M	Halogen free

### Packaging Information & Mounting Pad Layout





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