

# S2GGF-AU SERIES

## SURFACE MOUNT RECTIFIER

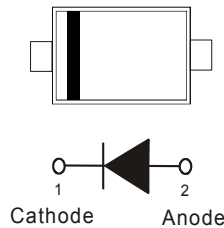
**VOLTAGE** 400~1000 Volt **CURRENT** 2 Ampere

### FEATURES

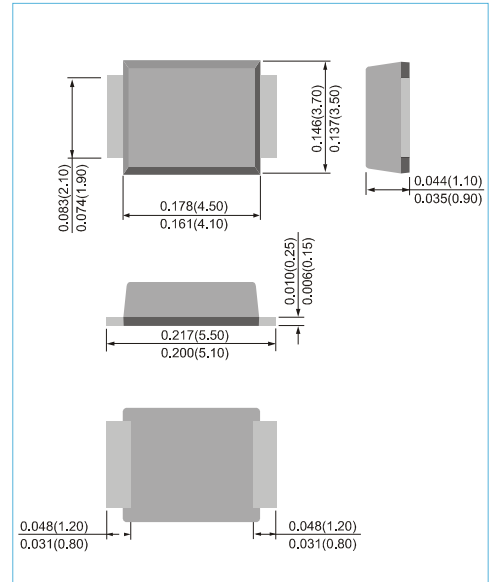
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Easy pick and place
- Glass passivated junction
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

### MECHANICAL DATA

- Case : SMBF molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0018 ounces, 0.05 grams
- Polarity : Color band denotes cathode end



**SMBF** Unit : inch(mm)

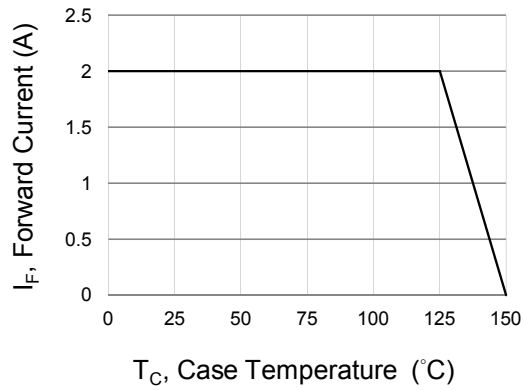


## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)

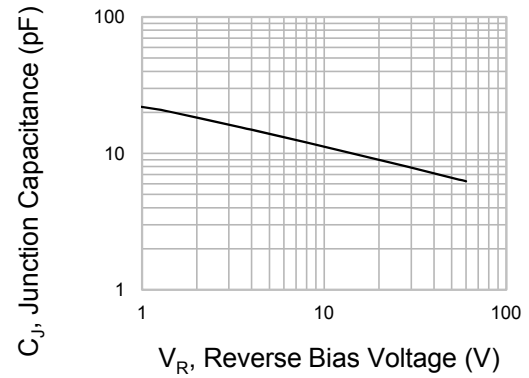
| PARAMETER   | SYMBOL                               | S2GGF-AU    | S2JGF-AU | S2KGF-AU | S2MGF-AU | UNITS  |
|---|--------------------------------------|-------------|----------|----------|----------|--------|
| Recurrent Peak Reverse Voltage  | V <sub>RRM</sub>                     | 400         | 600      | 800      | 1000     | V      |
| RMS Voltage   | V <sub>RMS</sub>                     | 280         | 420      | 560      | 700      | V      |
| DC Blocking Voltage   | V <sub>R</sub>                       | 400         | 600      | 800      | 1000     | V      |
| Average Forward Current   | I <sub>F(AV)</sub>                   | 2           |          |          |          | A      |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load   | I <sub>FSM</sub>                     | 70          |          |          |          | A      |
| Forward Voltage at 2A   | V <sub>F</sub>                       | 1.1         |          |          |          | V      |
| DC Reverse Current at Rated DC Blocking Voltage T <sub>J</sub> =25°C                  | I <sub>R</sub>                       | 1           |          |          |          | μA     |
| Typical Junction Capacitance V <sub>R</sub> =4V, 1MHz                                 | C <sub>J</sub>                       | 18          |          |          |          | pF     |
| Typical Thermal Resistance ,Junction to Lead (Note 1)<br>Junction to Ambient (Note 2) | R <sub>θJL</sub><br>R <sub>θJA</sub> | 20<br>135   |          |          |          | °C / W |
| Operating Junction Temperature and Storage Temperature Range                          | T <sub>J</sub> , T <sub>STG</sub>    | -55 to +150 |          |          |          | °C     |

NOTES:1.Mounted on an FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.  
2.Mounted on an FR4 PCB, single-sided copper, mini pad.

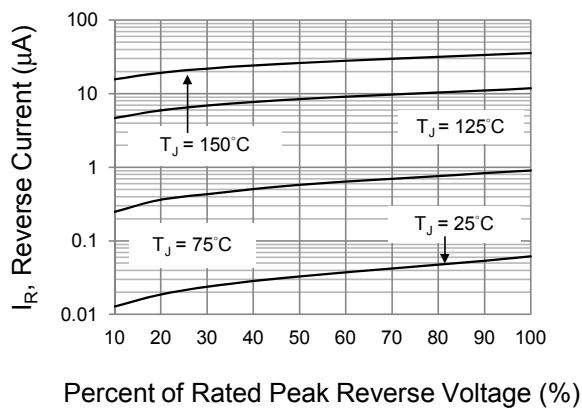
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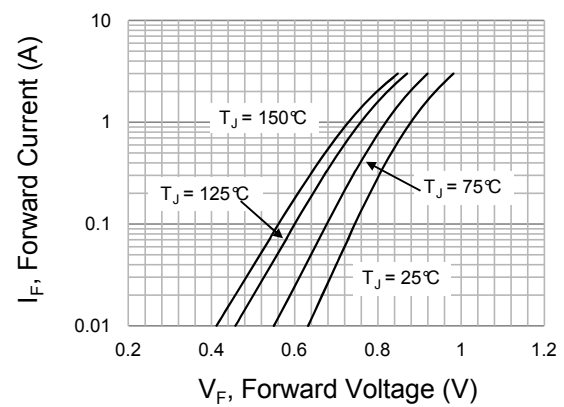
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



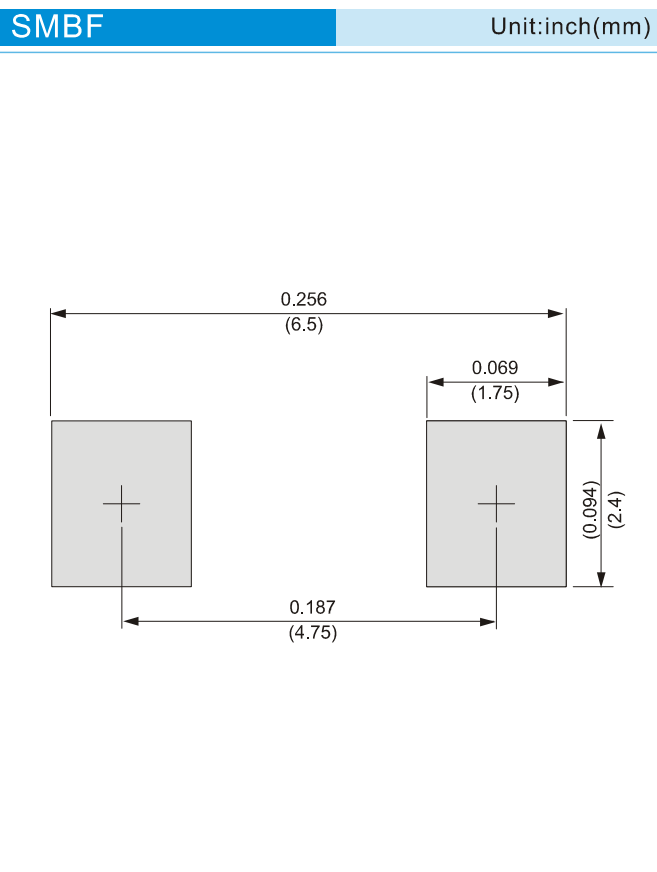
**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**

## S2GGF-AU SERIES

### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information  
T/R - 5K per 13" plastic Reel

## S2GGF-AU SERIES

Part No\_packing code\_Version

S2GGF-AU\_R2\_000A1

For example :

**RB500V-40\_R2\_00001**

Part No.

Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

| Packing Code <b>XX</b>               |                      |                                  |                      | Version Code <b>XXXXX</b> |                      |                                       |
|--------------------------------------|----------------------|----------------------------------|----------------------|---------------------------|----------------------|---------------------------------------|
| Packing type                         | 1 <sup>st</sup> Code | Packing size code                | 2 <sup>nd</sup> Code | HF or RoHS                | 1 <sup>st</sup> Code | 2 <sup>nd</sup> ~5 <sup>th</sup> Code |
| Tape and Ammunition Box (T/B)        | <b>A</b>             | N/A                              | <b>0</b>             | HF                        | <b>0</b>             | serial number                         |
| Tape and Reel (T/R)                  | <b>R</b>             | 7"                               | <b>1</b>             | RoHS                      | <b>1</b>             | serial number                         |
| Bulk Packing (B/P)                   | <b>B</b>             | 13"                              | <b>2</b>             |                           |                      |                                       |
| Tube Packing (T/P)                   | <b>T</b>             | 26mm                             | <b>X</b>             |                           |                      |                                       |
| Tape and Reel (Right Oriented) (TRR) | <b>S</b>             | 52mm                             | <b>Y</b>             |                           |                      |                                       |
| Tape and Reel (Left Oriented) (TRL)  | <b>L</b>             | PANASERT T/B CATHODE UP (PBCU)   | <b>U</b>             |                           |                      |                                       |
| FORMING                              | <b>F</b>             | PANASERT T/B CATHODE DOWN (PBCD) | <b>D</b>             |                           |                      |                                       |



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