

S2GGF-AU SERIES

SURFACE MOUNT RECTIFIER

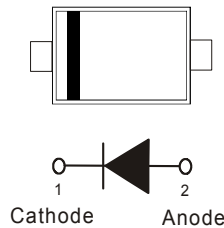
VOLTAGE 400~1000 Volt **CURRENT** 2 Ampere

FEATURES

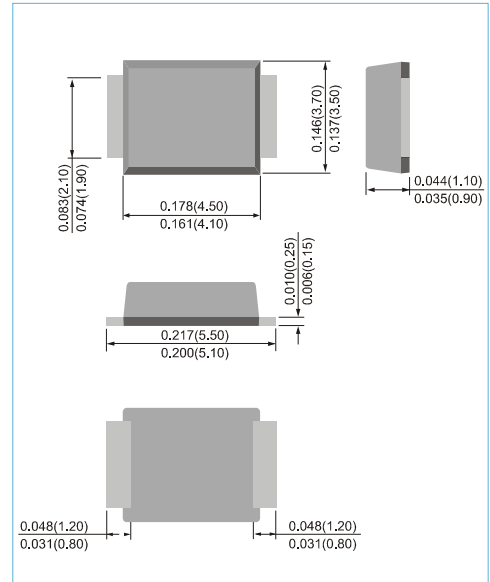
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Easy pick and place
- Glass passivated junction
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- 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_A=25°C unless otherwise noted)

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

NOTES:1.Mounted on an FR4 PCB, single-sided copper, with 100cm² copper pad area.
2.Mounted on an FR4 PCB, single-sided copper, mini pad.

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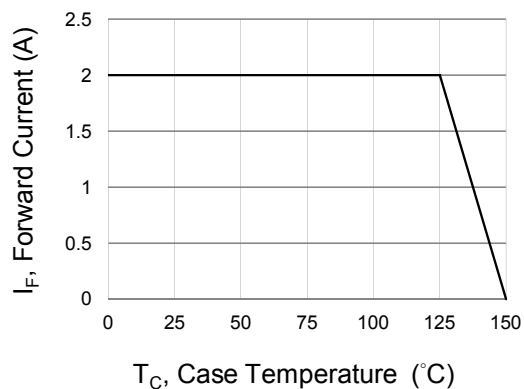


Fig.1 Forward Current Derating Curve

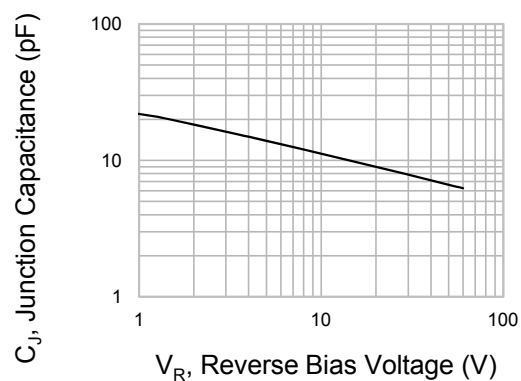


Fig.2 Typical Junction Capacitance

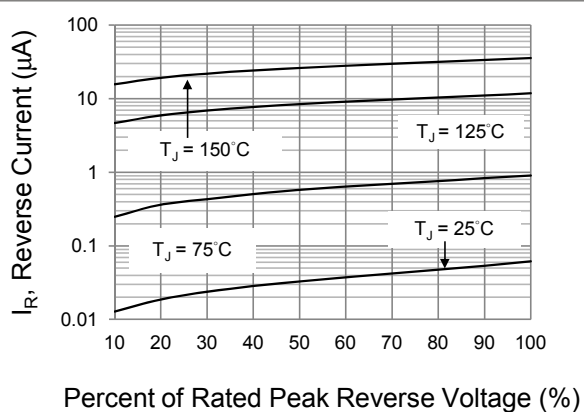


Fig.3 Typical Reverse Characteristics

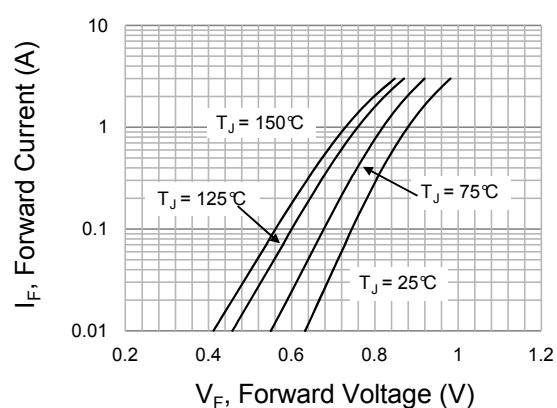


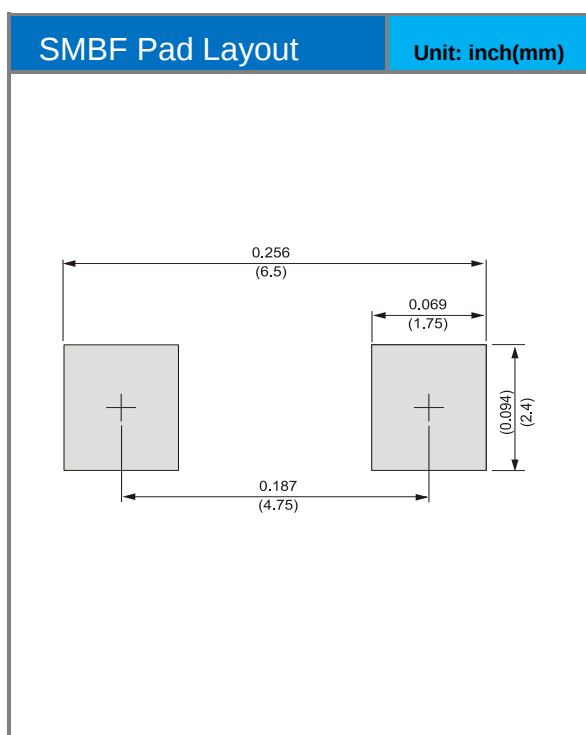
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
S2GGF-AU	SMBF	5K pcs / 13" reel	S2GGF
S2JGF-AU	SMBF	5K pcs / 13" reel	S2JGF
S2KGF-AU	SMBF	5K pcs / 13" reel	S2KGF
S2MGF-AU	SMBF	5K pcs / 13" reel	S2MGF

Mounting Pad Layout



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