

GS5JC-AU ~ GS5MC-AU Series

Surface Mount General Purpose Rectifier

Voltage

600~1000 V

Current

5 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 : SMC Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.266 grams

SMC



Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER		SYMBOL	GS5JC-AU	GS5KC-AU	GS5MC-AU	UNIT
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	420	560	700	V
Maximum DC Blocking Voltage		V _R	600	800	1000	V
Maximum Average Forward Rectified Current		I _{F(AV)}	5			A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	150			A
Instantaneous Forward Voltage at 5A		V _F	1.1			V
Reverse Current		I _R	5			uA
Typical Junction Capacitance Measured at 1 MHz And Applied V _R = 4V		C _J	33			pF
Typical Thermal Resistance	(Note 1)	R _{θJA}	150			°C/W
	(Note 2)	R _{θJL}	25			
	(Note 2)	R _{θJC}	12			
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, mini pad.
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

GS5JC-AU ~ GS5MC-AU Series

TYPICAL CHARACTERISTIC CURVES

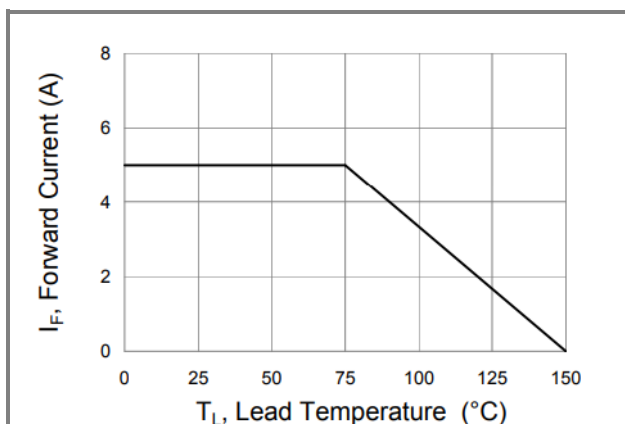


Fig.1 Forward Current Derating Curve

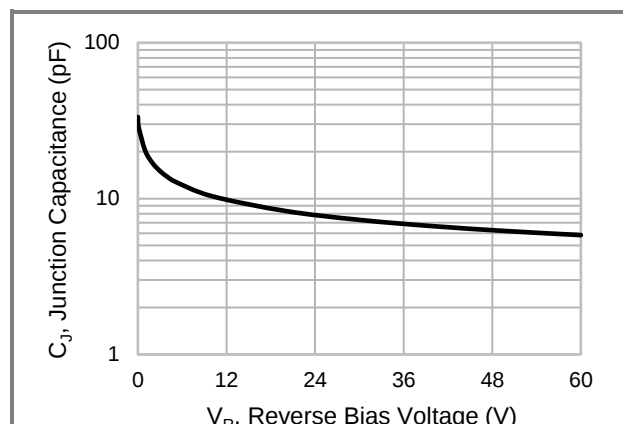


Fig.2 Typical Junction Capacitance

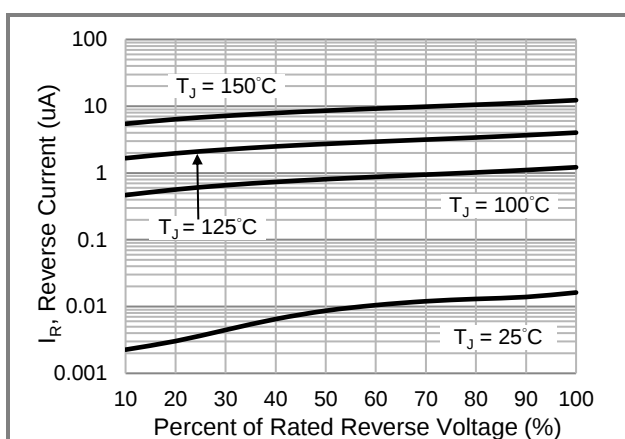


Fig.3 Typical Reverse Characteristics

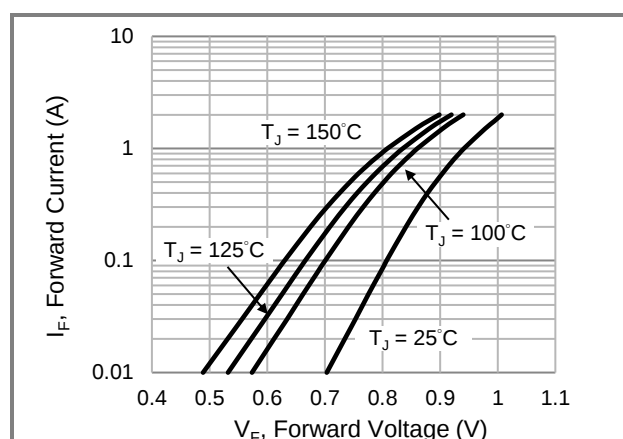


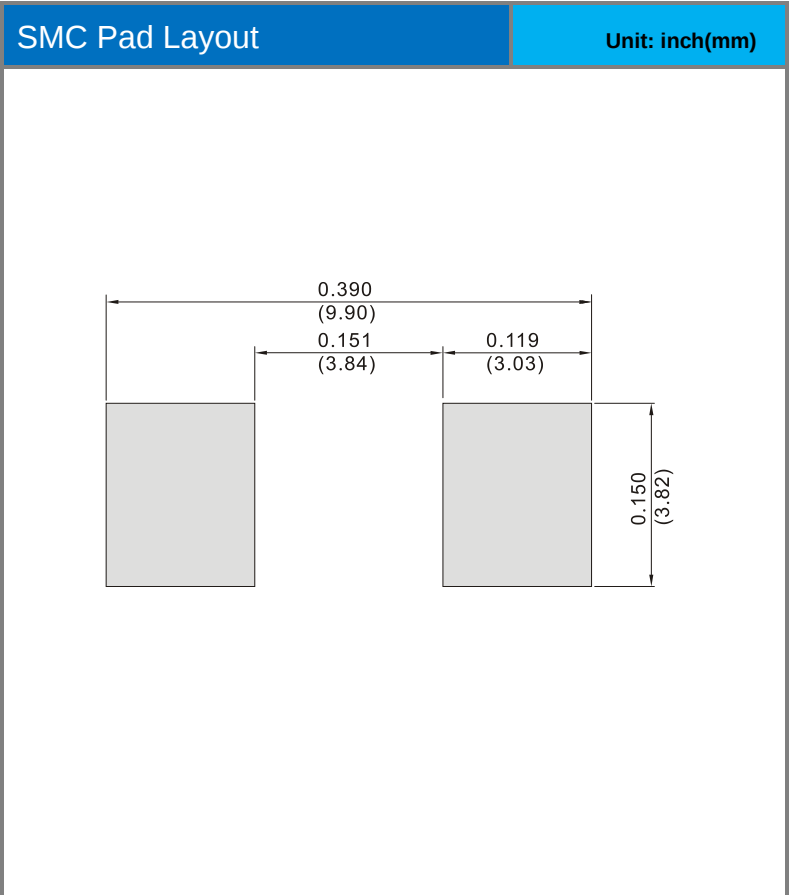
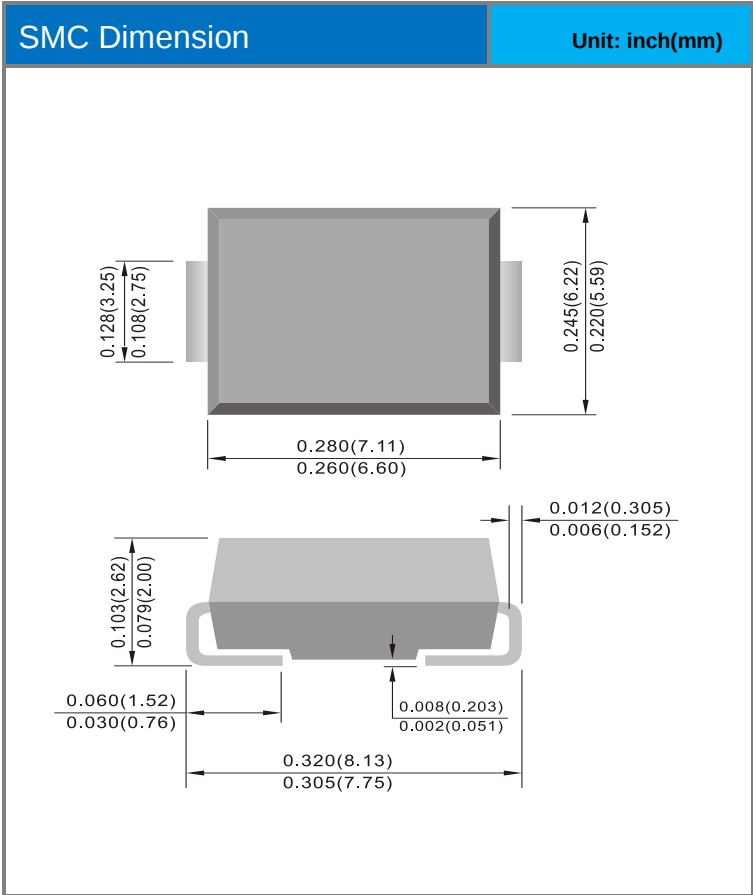
Fig.4 Typical Forward Characteristics

GS5JC-AU ~ GS5MC-AU Series

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS5JC-AU	SMC	0.8K pcs / 7" reel	GS5JC
GS5JC-AU	SMC	3K pcs / 13" reel	GS5JC
GS5KC-AU	SMC	0.8K pcs / 7" reel	GS5KC
GS5KC-AU	SMC	3K pcs / 13" reel	GS5KC
GS5MC-AU	SMC	0.8K pcs / 7" reel	GS5MC
GS5MC-AU	SMC	3K pcs / 13" reel	GS5MC

Packaging Information & Mounting Pad Layout



GS5JC-AU ~ GS5MC-AU 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 follow PCN procedure. 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 or authorized for equipment relating to human life, life-saving or life-sustaining applications, such as medical instruments and aerospace machinery, or for other applications intended to cause personal injury. 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. For additional terms and conditions regarding the use of PANJIT products, please refer to the Terms of Use available on the PANJIT website.
- Since PANJIT uses lot number as the tracking base, please provide the lot number for tracking when complaining.