

GS3JC-AU ~ GS3MC-AU Series

Surface Mount General Purpose Rectifier

Voltage

600~1000 V

Current

3 A

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 : 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	GS3JC-AU	GS3KC-AU	GS3MC-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)}	3			A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	100			A
Instantaneous Forward Voltage at 3A	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	25			pF
Typical Thermal Resistance	(Note 1) R _{θJA}	90			°C/W
	(Note 2) R _{θJL}	12			
	(Note 2) R _{θJC}	10			
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.

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TYPICAL CHARACTERISTIC CURVES

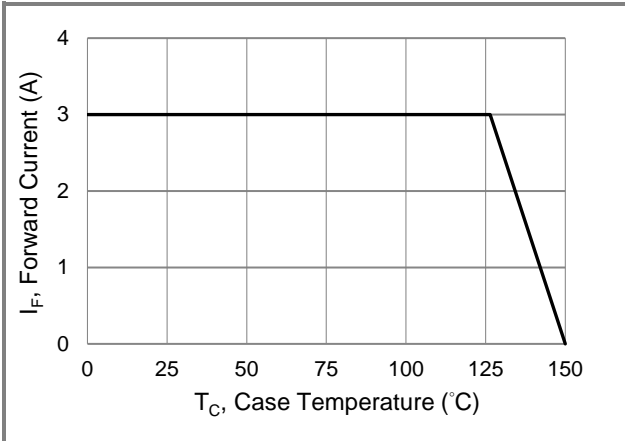


Fig.1 Forward Current Derating Curve

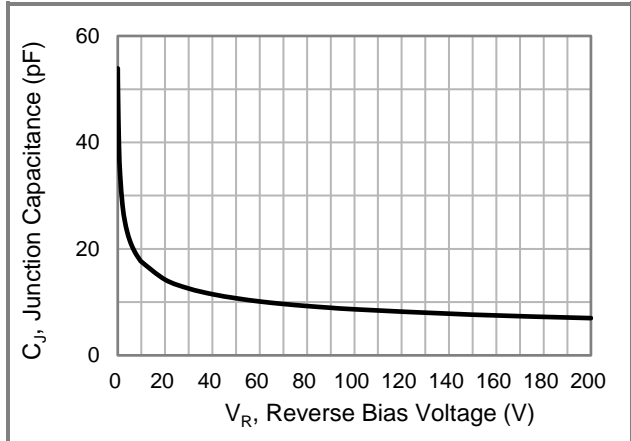


Fig.2 Typical Junction Capacitance

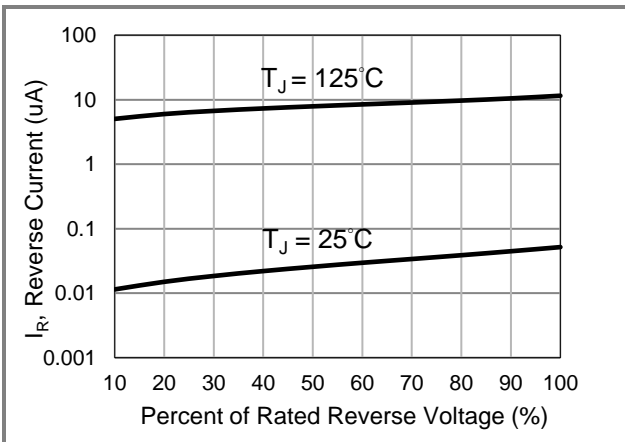


Fig.3 Typical Reverse Characteristics

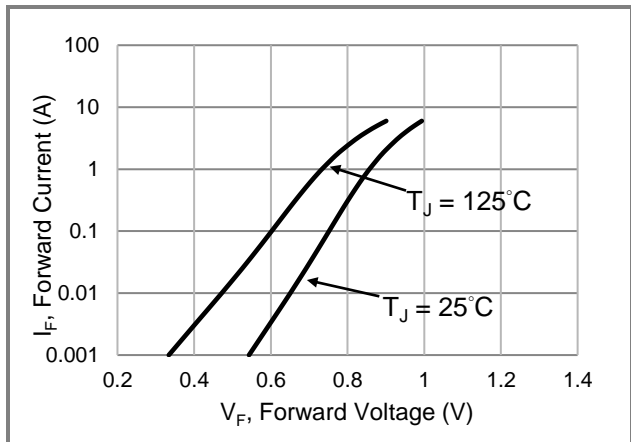


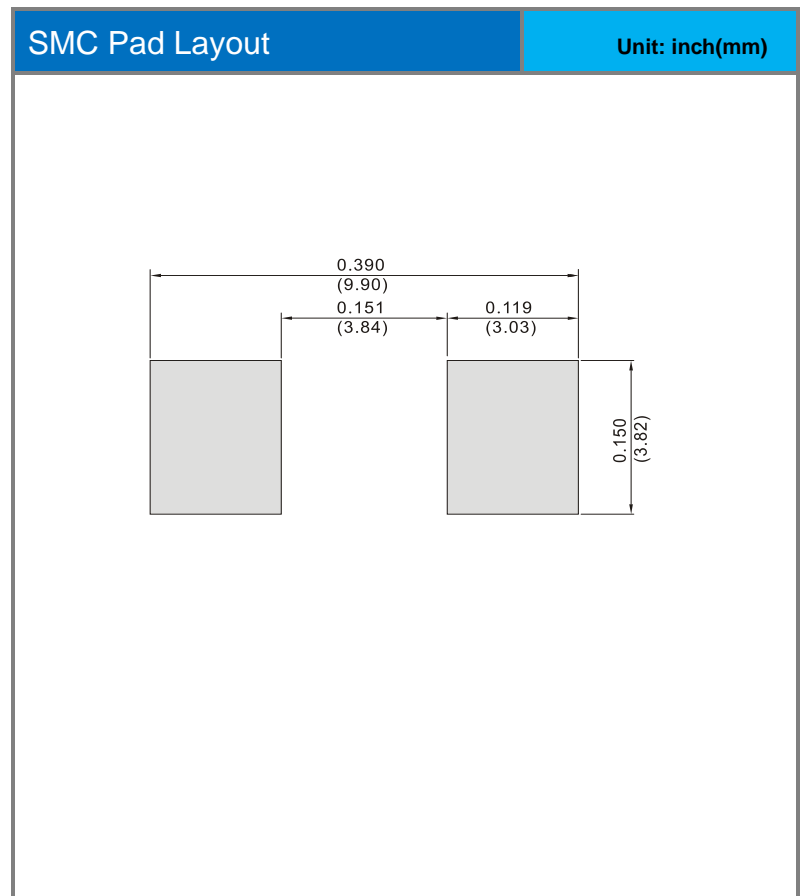
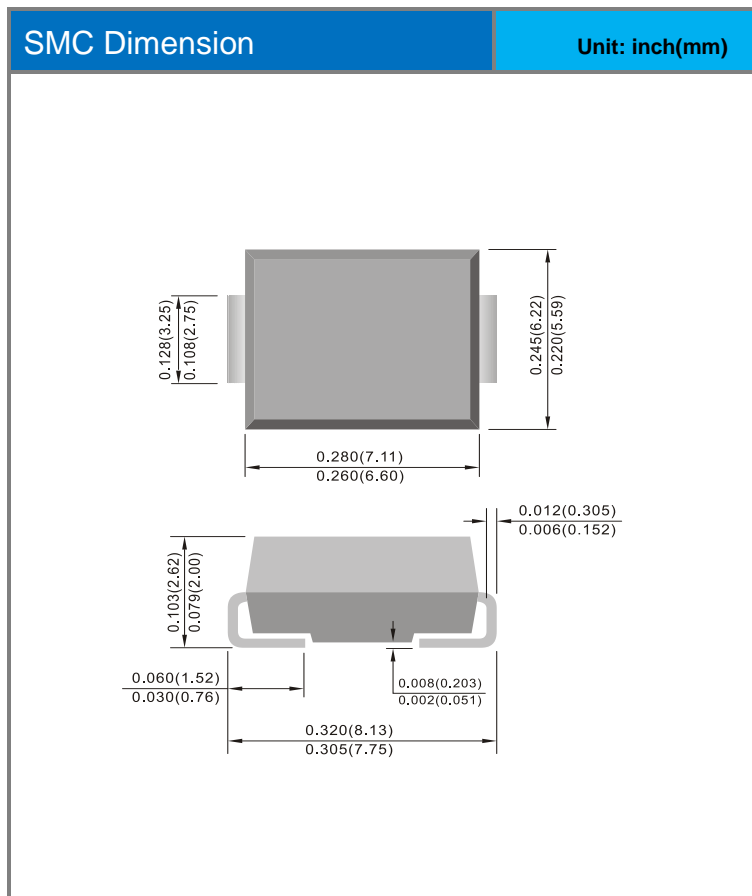
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS3JC-AU	SMC	0.8K pcs / 7" reel	GS3JC
GS3JC-AU	SMC	3K pcs / 13" reel	GS3JC
GS3KC-AU	SMC	0.8K pcs / 7" reel	GS3KC
GS3KC-AU	SMC	3K pcs / 13" reel	GS3KC
GS3MC-AU	SMC	0.8K pcs / 7" reel	GS3MC
GS3MC-AU	SMC	3K pcs / 13" reel	GS3MC

Packaging Information & Mounting Pad Layout



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