

GS8JC-AU ~ GS8MC-AU Series

Surface Mount General Purpose Rectifier

Voltage

600~1000 V

Current

8 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 : 0.2325 grams

SMC



1 2
Cathode Anode

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

PARAMETER		SYMBOL	GS8JC-AU	GS8KC-AU	GS8MC-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)}	8			A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load		I _{FSM}	200			A
I ² t rating for fusing (t = 8.3ms)		I ² t	166			A ² S
Instantaneous Forward Voltage at 8A		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	55			pF
Typical Thermal Resistance	(Note 1)	R _{θJA}	80			°C/W
	(Note 2)	R _{θJL}	12			
	(Note 2)	R _{θJC}	8			
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

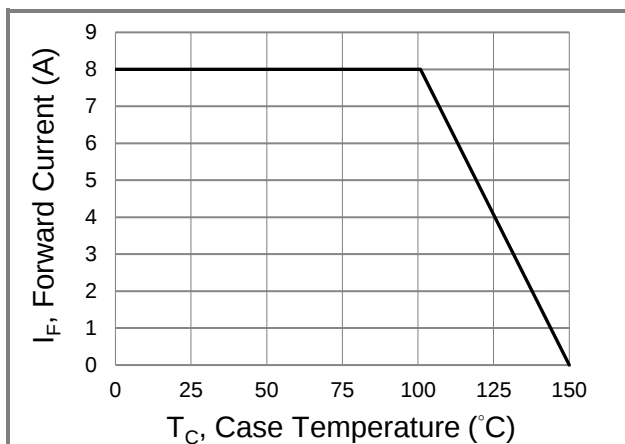


Fig.1 Forward Current Derating Curve

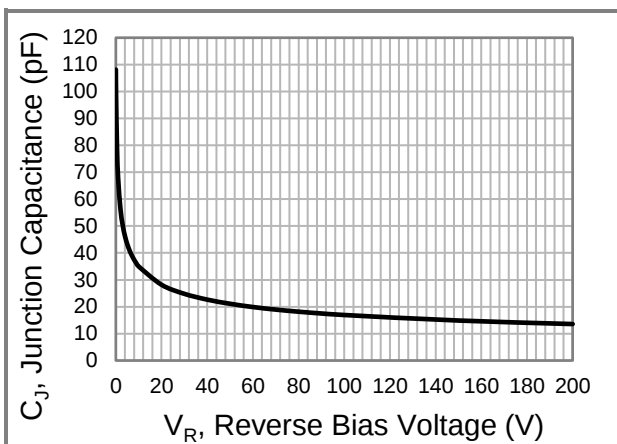


Fig.2 Typical Junction Capacitance

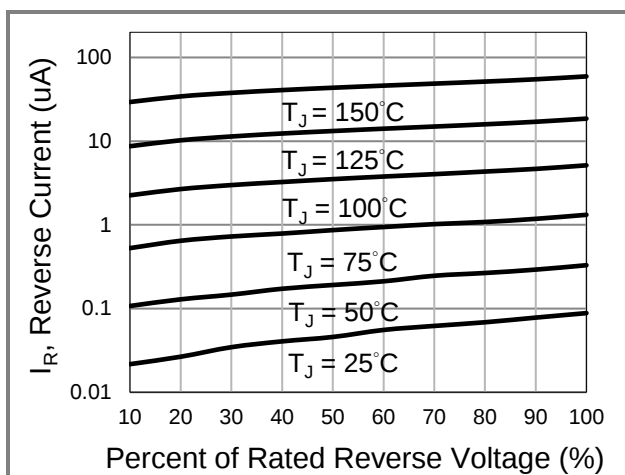


Fig.3 Typical Reverse Characteristics

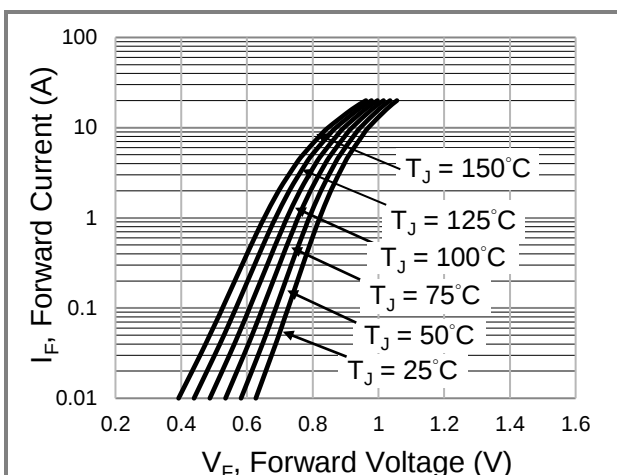


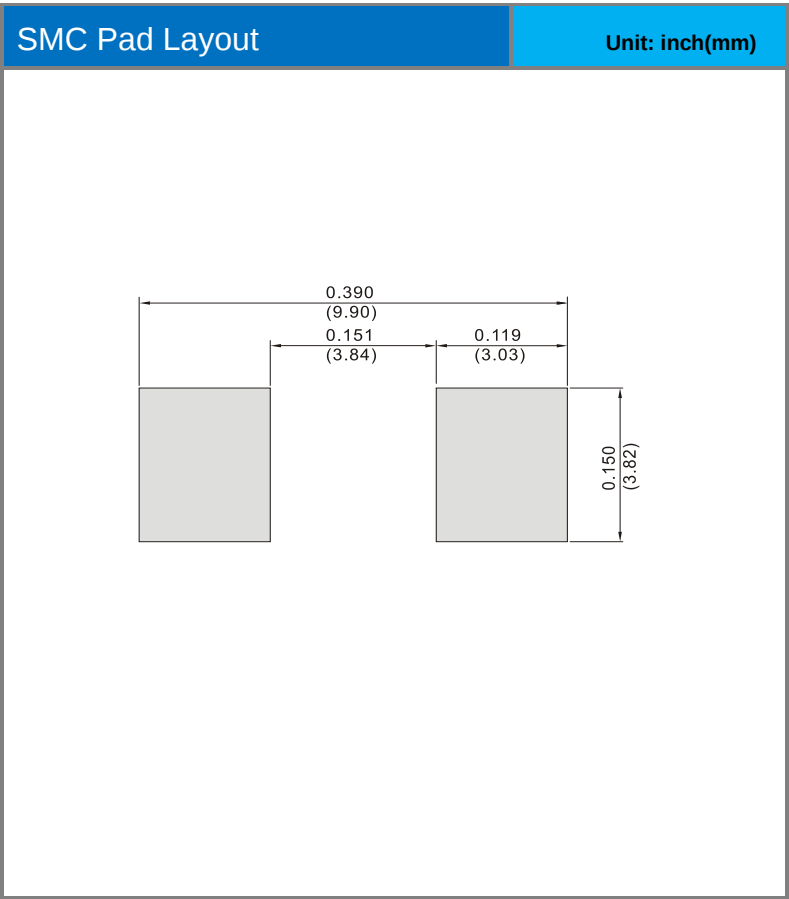
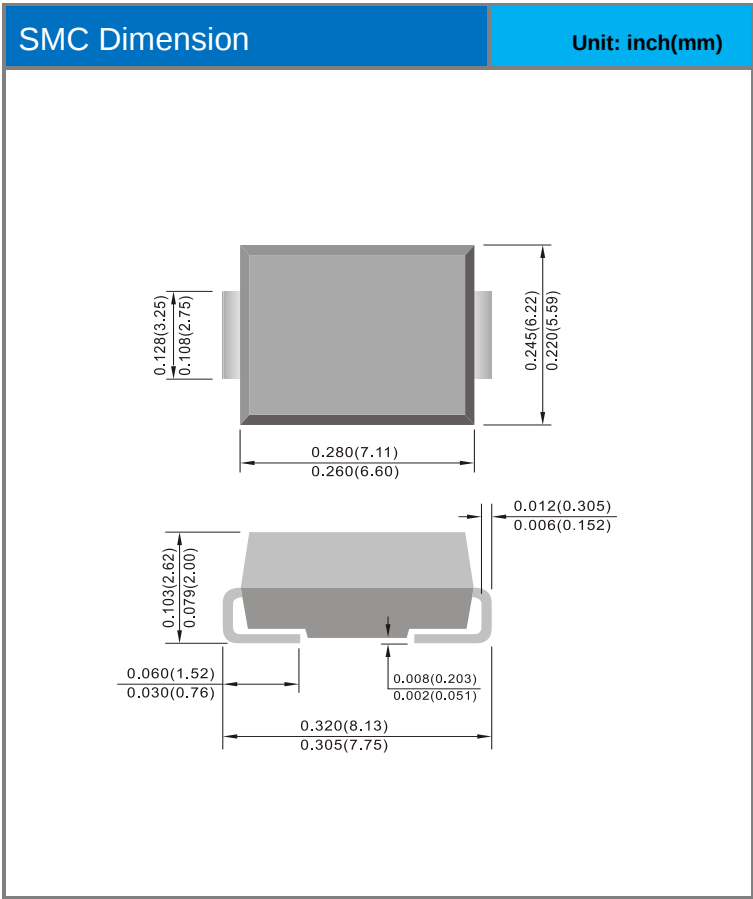
Fig.4 Typical Forward Characteristics

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
GS8JC-AU	SMC	0.8K pcs / 7" reel	GS8JC
GS8JC-AU	SMC	3K pcs / 13" reel	GS8JC
GS8KC-AU	SMC	0.8K pcs / 7" reel	GS8KC
GS8KC-AU	SMC	3K pcs / 13" reel	GS8KC
GS8MC-AU	SMC	0.8K pcs / 7" reel	GS8MC
GS8MC-AU	SMC	3K pcs / 13" reel	GS8MC

Packaging Information & Mounting Pad Layout



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