

## GS8JC ~ GS8MC Series

### Surface Mount General Purpose Rectifier

Voltage

600~1000 V

Current

8 A

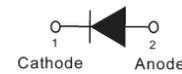
#### Features

- Glass passivated chip junction
- Low forward voltage drop
- Low leakage current
- 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<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	GS8JC	GS8KC	GS8MC	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	420	560	700	V
Maximum DC Blocking Voltage	V <sub>R</sub>	600	800	1000	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	8			A
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	200			A
I <sup>2</sup> t rating for fusing (t = 8.3ms)	I <sup>2</sup> t	166			A <sup>2</sup> S
Instantaneous Forward Voltage at 8A	V <sub>F</sub>	1.1			V
Reverse Current	I <sub>R</sub>	5			uA
Typical Junction Capacitance Measured at 1 MHz And Applied V <sub>R</sub> = 4V	C <sub>J</sub>	55			pF
Typical Thermal Resistance	(Note 1)	R <sub>θJA</sub>	80		°C/W
	(Note 2)	R <sub>θJL</sub>	12		
	(Note 2)	R <sub>θJC</sub>	8		
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150			°C
Storage Temperature Range	T <sub>STG</sub>	-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 100cm<sup>2</sup> copper pad area.

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## TYPICAL CHARACTERISTIC CURVES

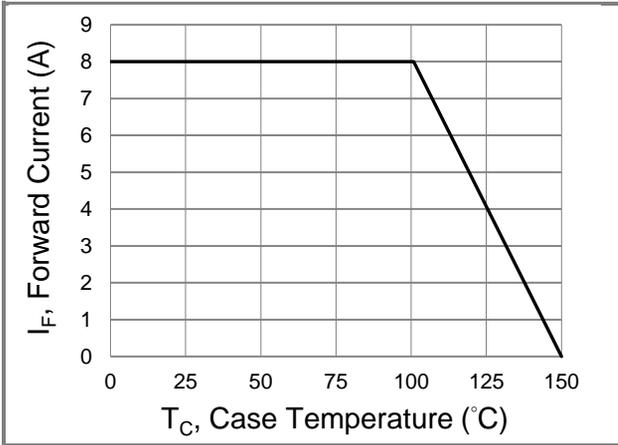


Fig.1 Forward Current Derating Curve

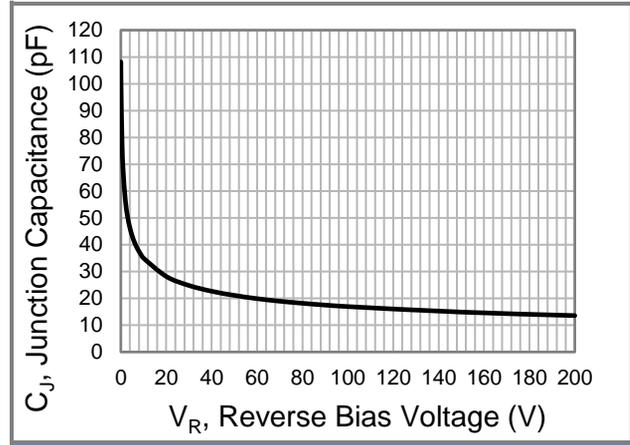


Fig.2 Typical Junction Capacitance

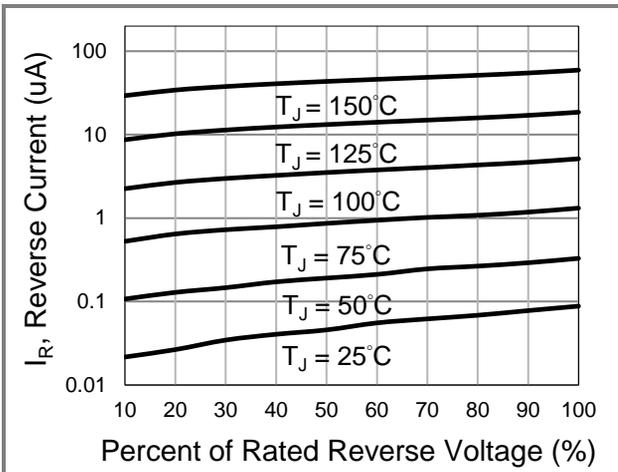


Fig.3 Typical Reverse Characteristics

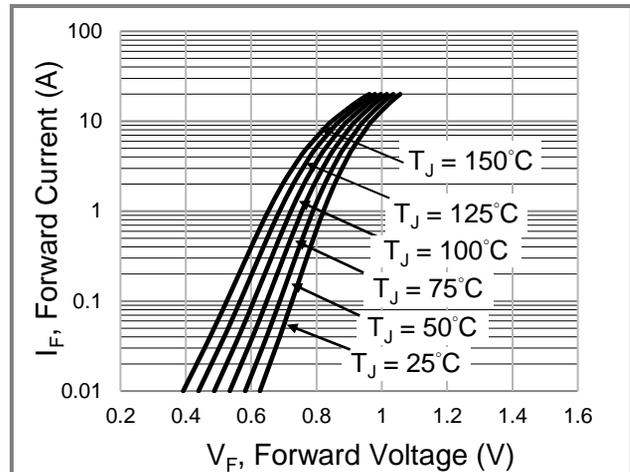


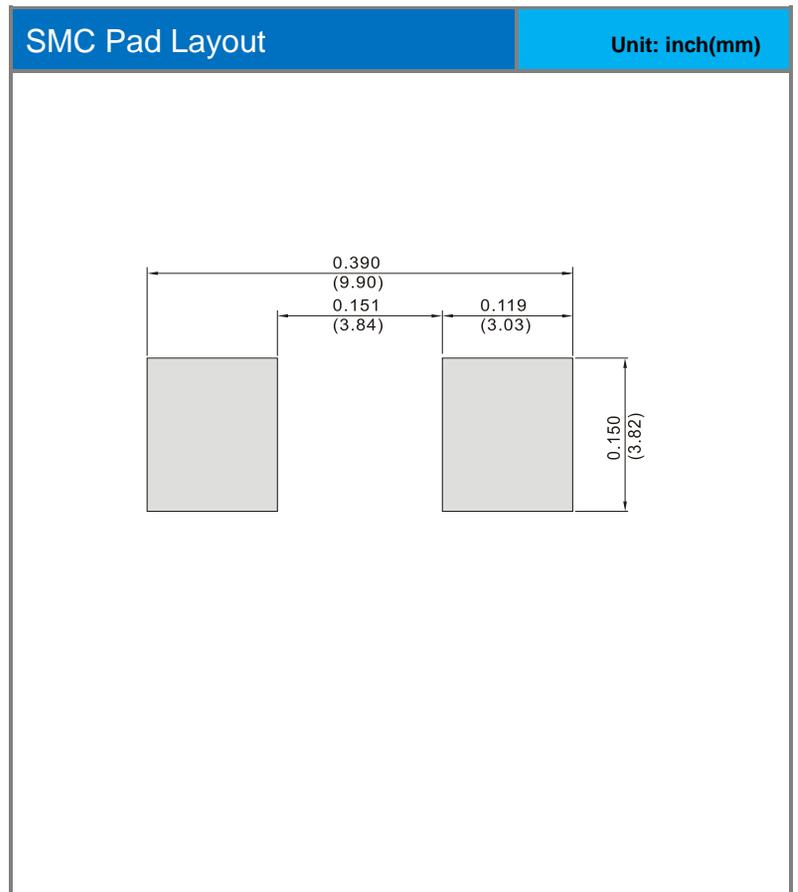
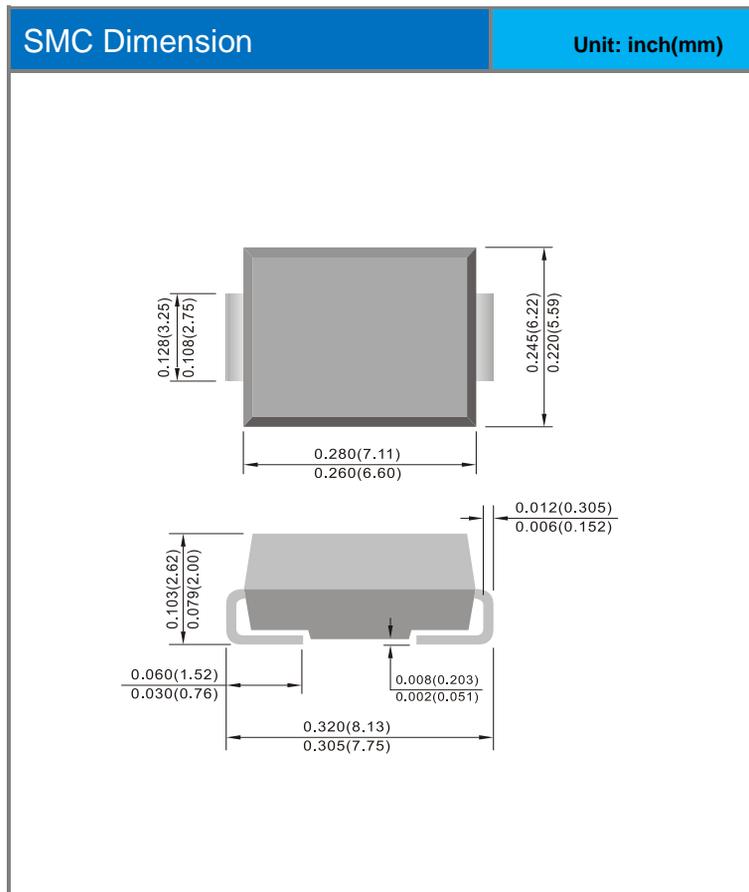
Fig.4 Typical Forward Characteristics

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## Product and Packing Information

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

## Packaging Information & Mounting Pad Layout



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