

GS5J-K-E

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE: 600V

CURRENT: 5.0A

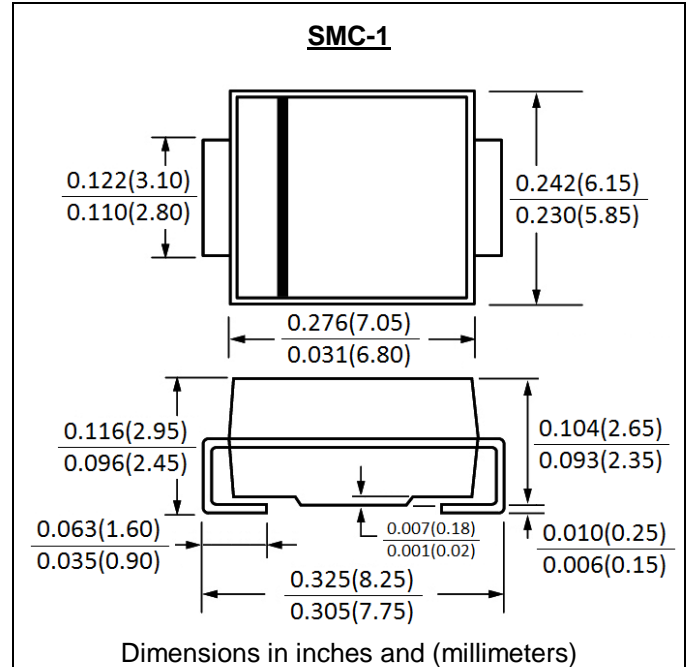


FEATURE

Ideal for surface mount pick and place application
 Low profile package
 Built-in strain relief
 High surge capability
 High temperature soldering guaranteed
 260°C/10sec/at terminals
 Halogen Free

MECHANICAL DATA

Terminal: Plated leads solderable per J-STD-002
 Case: Molded with UL-94 class V-0 recognized Halogen Free Epoxy
 Polarity: color band denotes cathode
 Marking: GS5J



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C, unless otherwise stated)

	Symbol	GS5J-K-E	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	600	V
Maximum RMS Voltage	V _{rms}	420	V
Maximum DC blocking Voltage	V _{dc}	600	V
Maximum Average Forward Rectified Current 3/8"lead length at T _L =75°C	I _{f(av)}	5.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100	A
Maximum Forward Voltage at rated Forward current	V _f	1.15	V
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	I _r	10 250	µA
Typical Junction Capacitance (Note 1)	C _j	40	pF
Typical Thermal Resistance (Note 2)	R _{th(jl)}	10	°C/W
Storage and Operating Temperature Range	T _j , T _{stg}	-50 to +150	°C

Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Thermal Resistance from Junction to terminal mounted on 8×8mm copper pad area

Fig. 1 - Forward Current Derating Curve

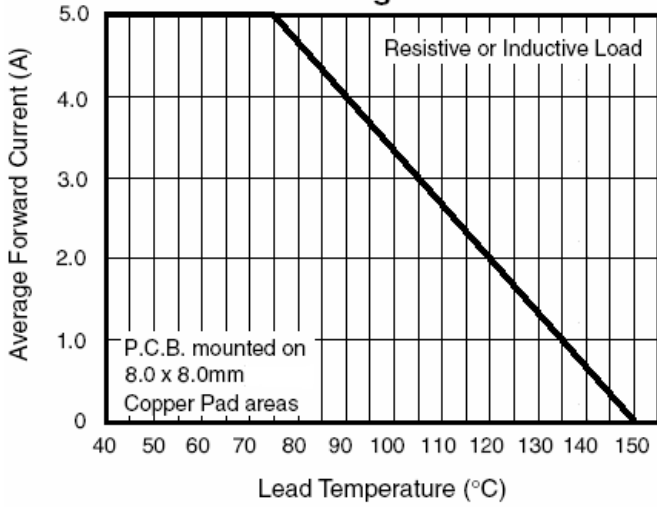


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

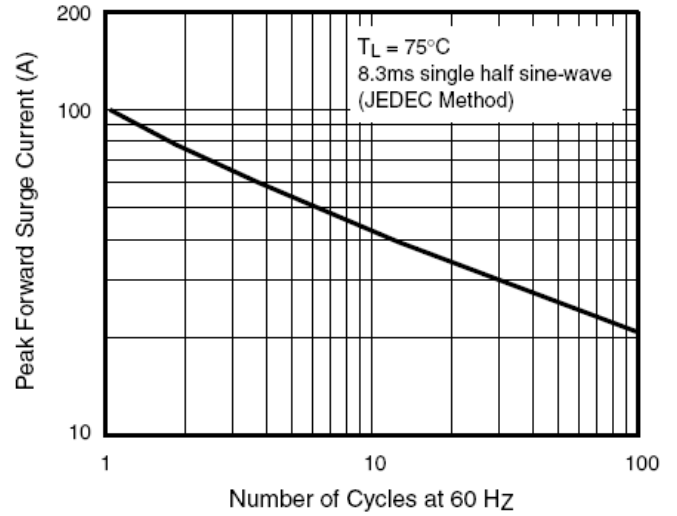


Fig. 3 - Typical Instantaneous Forward Characteristics

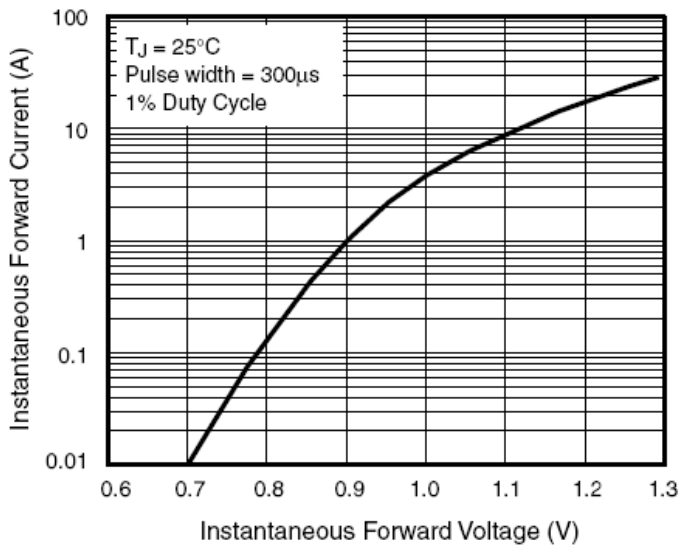


Fig. 4 - Typical Reverse Characteristics

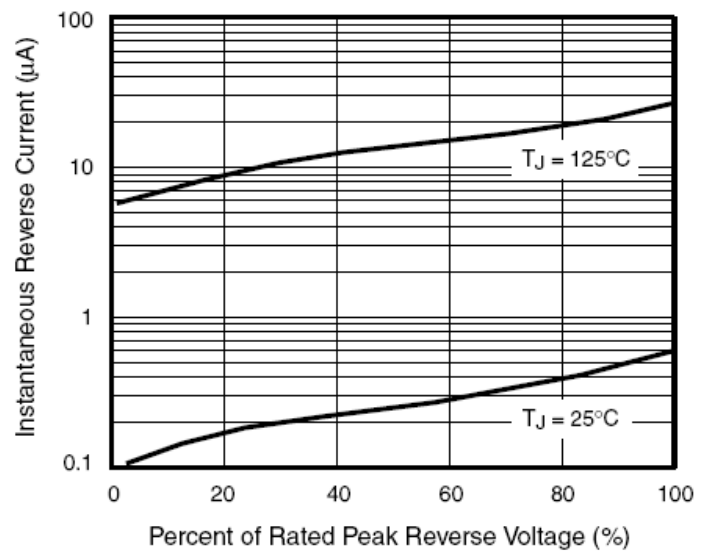


Fig. 5 - Typical Junction Capacitance

