GS1J-E THRU GS1M-E

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

VOLTAGE: 600V to 1000V CURRENT: 1.0A



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

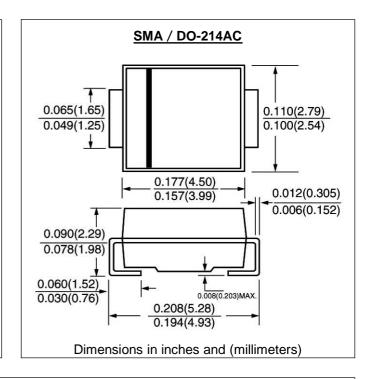
MECHANICAL DATA

Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 class V-0 recognized Halogen

Free Epoxy

Polarity: color band denotes cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	GS1J-E	GS1K-E	GS1M-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	800	1000	V
Maximum RMS Voltage	Vrms	420	560	700	V
Maximum DC blocking Voltage	Vdc	600	800	1000	V
Maximum Average Forward Rectified Current 3/8"lead length	If(av)	1.0			А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	30.0			А
Maximum Instantaneous Forward Voltage at rated Forward current	Vf	1.1			V
Maximum DC Reverse Current $Ta = 25^{\circ}C$ at rated DC blocking voltage $Ta = 125^{\circ}C$	l II	5.0 200.0			μА
Typical Junction Capacitance (Note 1)	Cj	15.0			pF
Typical Thermal Resistance (Note 2)	Rth(jl)	30			°C/W
(Note 3)	Rth(jc)	50			
Storage and Operating Junction Temperature	Tj, Tstg		-50 to +150		$^{\circ}$

Note:

- 1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
- 2. Thermal Resistance from Junction to terminal mounted on 5x5mm copper pad area

3. Junction to Case

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RATINGS AND CHARACTERISTIC CURVES GS1J-E THRU GS1M-E

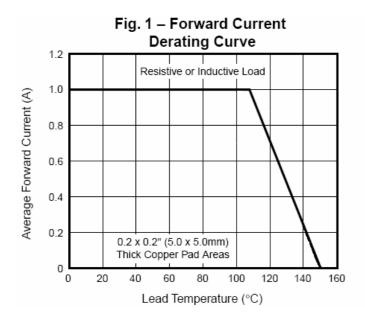


Fig. 3 - Typical Instantaneous Forward Characteristics

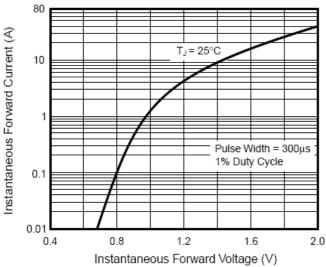


Fig. 5 – Typical Junction Capacitance

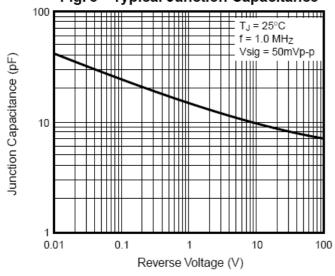


Fig. 2 – Maximum Non-Repetitive Peak

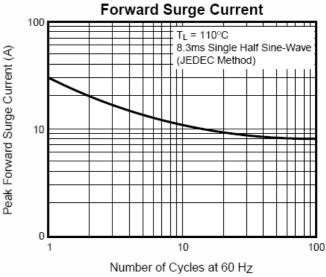
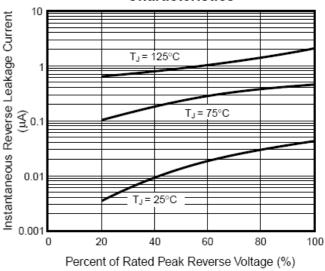
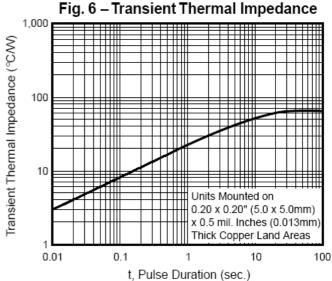


Fig. 4 - Typical Reverse Leakage Characteristics





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