RG1J

SINTERED GLASS JUNCTION FAST SWITCHING RECTIFIER

VOLTAGE: 600V CURRENT: 1.0A



FEATURE

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500 High temperature soldering guaranteed 350°C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal runaway

MECHANICAL DATA

Case: SOD-57 sintered glass case

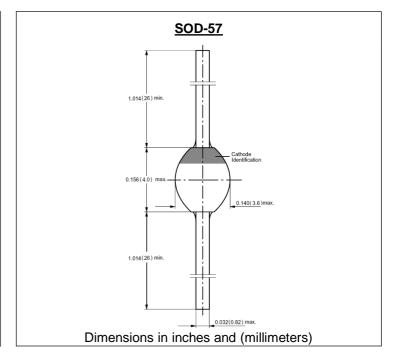
Fast switching for high efficiency

Terminal: Plated axial leads solderable per

MIL-STD 202E, method 208C

Polarity: color band denotes cathode end

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

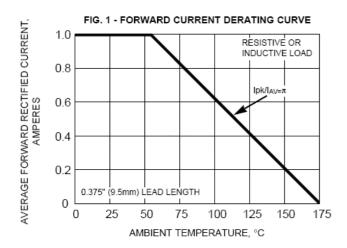
		SYMBOL	RG1J	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	600	V
Maximum RMS Voltage		Vrms	420	V
Maximum DC blocking Voltage		Vdc	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C		If(av)	1.0	А
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load		Ifsm	30	А
Maximum Forward Voltage at rated Forward Current and 25°C		Vf	1.3	V
Maximum full load reverse current full cycle average 0.375"(9.5MM) lead length at Ta=100°C		Ir(av)	100	μА
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25°C Ta =125°C	Ir	2.0 100	μА
Typical Reverse Recovery Time	(Note 1)	Trr	200	nS
Typical Junction Capacitance	(Note 2)	Cj	15	pF
Typical Thermal Resistance	(Note 3)	Rth(ja)	55	°C /V
Storage and Operating Temperature Range		Tstg, Tj	-65 to +175	°C

Note:

- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

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RATINGS AND CHARACTERISTIC CURVES RG1J



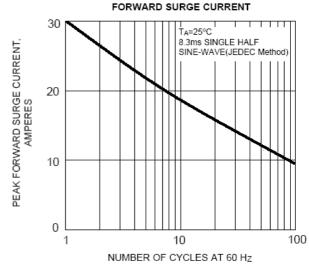
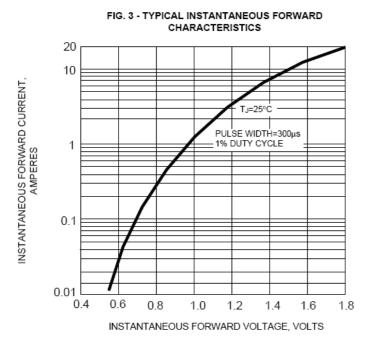
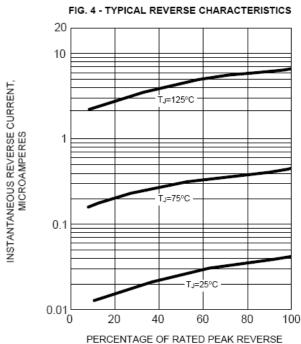
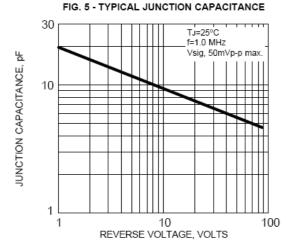


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK





VOLTAGE, %



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