GRD07-15GP

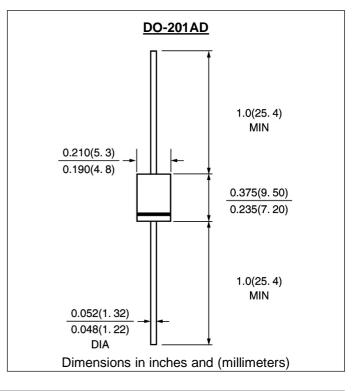
SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE: 1500V CURRENT: 1.5A



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 run away Typical Ir<0.1µA

MECHANICAL DATA Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C Case: Molded with UL-94 Class V-0 recognized Flame Retardant Epoxy Polarity: color band denotes cathode Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

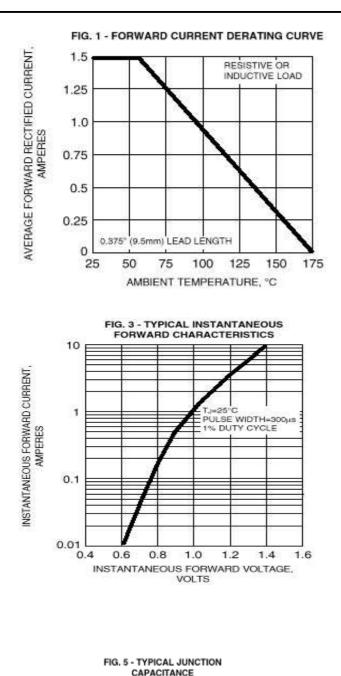
(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

		SYMBOL	GRD07-15GP	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	1500	V
Maximum RMS Voltage		Vrms	1050	V
Maximum DC blocking Voltage		Vdc	1500	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C		lf(av)	1.5	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		lfsm	50.0	A
Maximum Forward Voltage at rated Forward Current and 25°C at IF=4.0A		Vf	1.2	V
Maximum full load reverse current full cycle average at 55°C Ambient		lr(av)	100	μΑ
Maximum DC Reverse Current at rated DC blocking voltage	Ta =25°C Ta =150°C	Ir	10.0 200	μΑ
Maximum Reverse Recovery Time	(Note 1)	Trr	300	nS
Typical Junction Capacitance	(Note 2)	Cj	60	pF
Typical Thermal Resistance	(Note 3)	Rth(ja)	20	°C /\
Storage and Operating Junction Temperature		Tstg, Tj	-65 to +175	 ⊃°

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



RATINGS AND CHARACTERISTIC CURVES GRD07-15GP

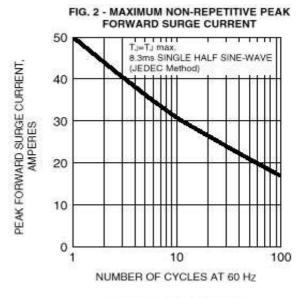


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

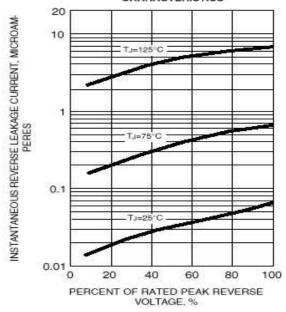
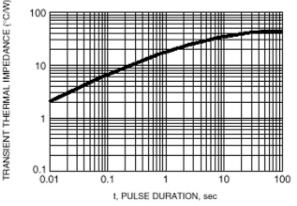
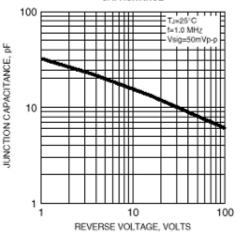


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE





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