RGP02-12E THRU RGP02-20E

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE:1200 TO 2000V CURRENT: 0.5A

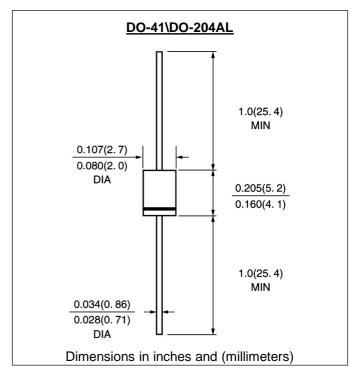


FEATURE

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<0.2µA

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	RGP02 -12E	RGP02 -14E	RGP02 -16E	RGP02 -18E	RGP02 -20E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	1400	1600	1800	2000	V
Maximum RMS Voltage	Vrms	840	980	1120	1360	1400	V
Maximum DC blocking Voltage	Vdc	1200	1400	1600	1800	2000	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	lf(av)			0.5			А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	20.0					А
Maximum Forward Voltage at 0.1A and 25°C	Vf	1.8					V
Maximum full load reverse current full cycle Average at 55°C Ambient	lr(av)	100					μΑ
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	lr	5.0 50.0					μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	300					nS
Typical Junction Capacitance (Note 2)	Cj	5.0					pF
Typical Thermal Resistance (Note 3)	R(ja)	65.0					°C /
Storage and Operating Junction Temperature	Tstg, Tj			-65 to +175	5		°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

RATINGS AND CHARACTERISTIC CURVES RGP02-12E THRU RGP02-20E

FIG. 1 - FORWARD CURRENT DERATING CURVE

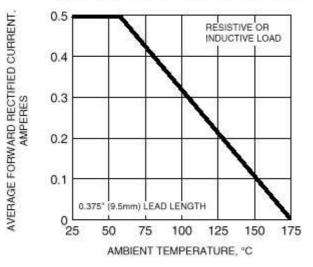
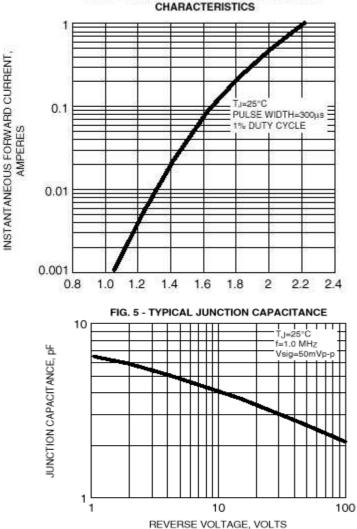
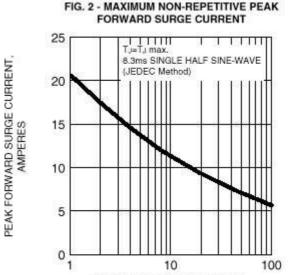


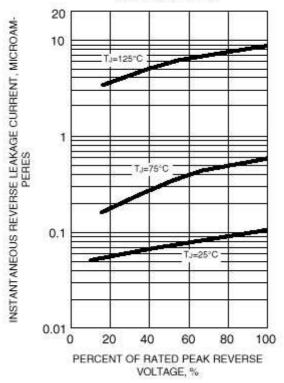
FIG. 3 - TYPICAL INSTANTANEOUS FORWARD





NUMBER OF CYCLES AT 60 Hz

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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