RGP10B-E

SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE: 100V CURRENT: 1.0A

FEATURE

Typical Ir<0.1µA

MECHANICAL DATA

Free ant Epoxy

Mounting position: any

Polarity: color band denotes cathode

Halogen Free

Sintered glass cavity free junction

High temperature soldering guaranteed

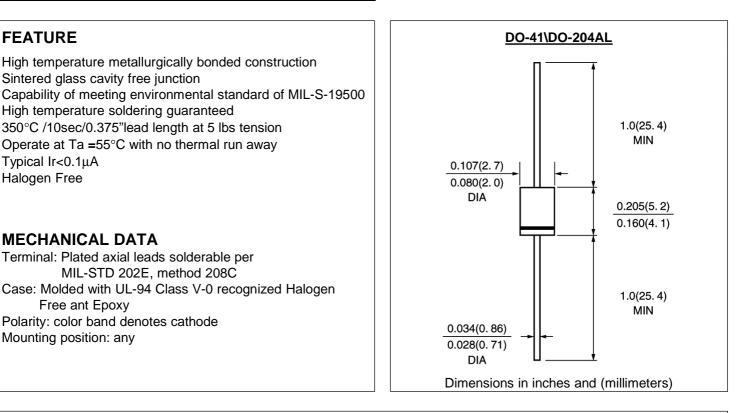
350°C /10sec/0.375"lead length at 5 lbs tension

Operate at Ta =55°C with no thermal run away

Terminal: Plated axial leads solderable per

MIL-STD 202E, method 208C





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	RGP10B-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	V
Maximum RMS Voltage	Vrms	70	V
Maximum DC blocking Voltage	Vdc	100	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	lf(av)	1.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	30.0	A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum full load reverse current full cycle average at 55°C Ambient	lr(av)	100.0	μΑ
Maximum DC Reverse CurrentTa = 25° CTa = 25^{\circ}CTa = 25° C	Ir	5.0	μA
at rated DC blocking voltage Ta =150°C		200.0	•
Maximum Reverse Recovery Time (Note 1)	Trr	150	nS
Typical Junction Capacitance (Note 2)	Cj	15.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	55.0	°C /\
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	C

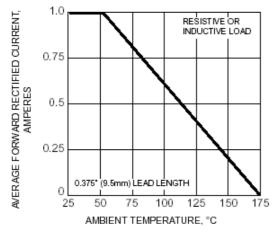
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

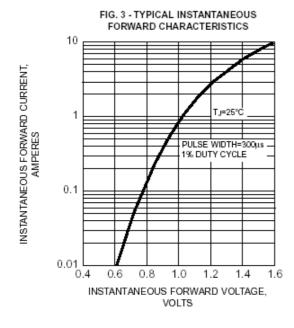
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

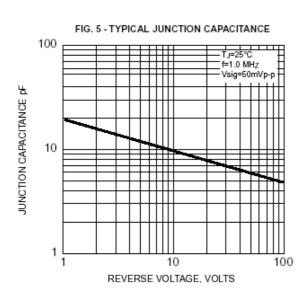
3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted











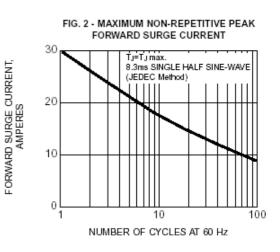


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

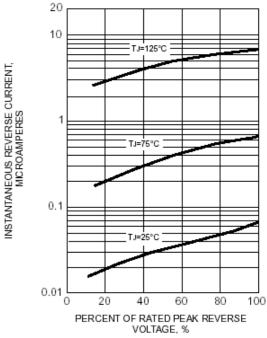
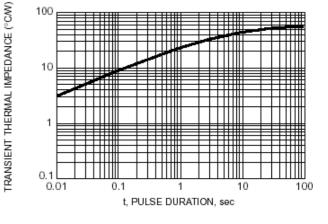


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



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