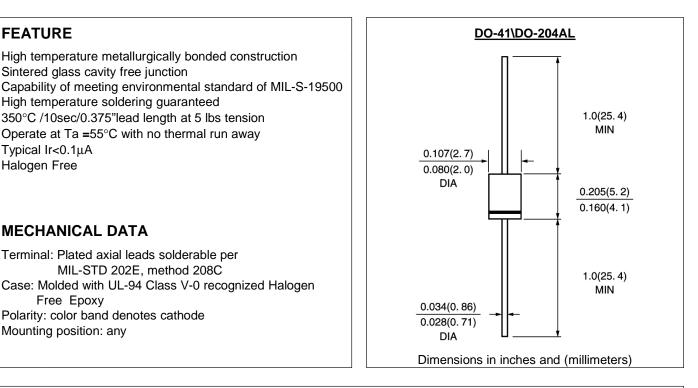
# **RGP10D-E**

#### SINTERED GLASS JUNCTION FAST SWITCHING PLASTIC RECTIFIER VOLTAGE: 200V CURRENT: 1.0A

High temperature metallurgically bonded construction





### **MECHANICAL DATA**

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

**FEATURE** 

Typical Ir<0.1µA

Halogen Free

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 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	RGP10D-E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	200	V
Maximum RMS Voltage	Vrms	140	V
Maximum DC blocking Voltage	Vdc	200	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°Cat rated DC blocking voltageTa =150°C	lr	5.0 200.0	μΑ
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 /V
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	 ⊃°

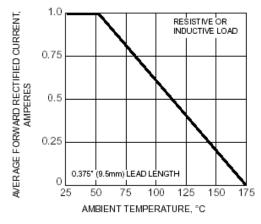
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

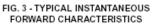
3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

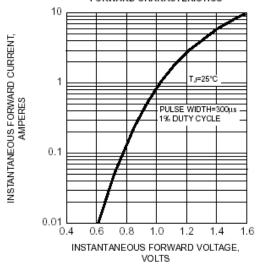
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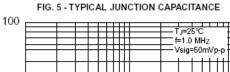
### **RATINGS AND CHARACTERISTIC CURVES RGP10D-E**

### FIG. 1 - FORWARD CURRENT DERATING CURVE









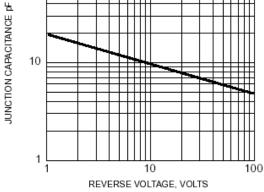




FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

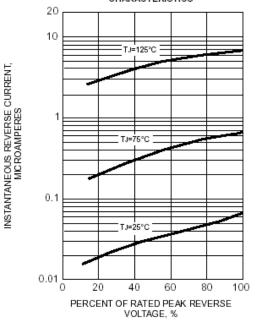
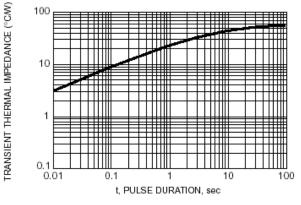


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



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