RGP10A THRU RGP10M

SINTERED GLASS JUNCTION **FAST SWITCHING PLASTIC RECTIFIER**

VOLTAGE:50 TO 1000V **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 run away Typical Ir<0.1µA

MECHANICAL DATA

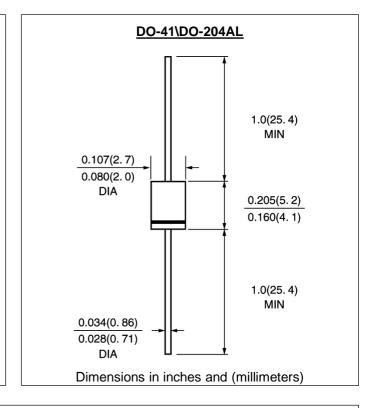
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

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)

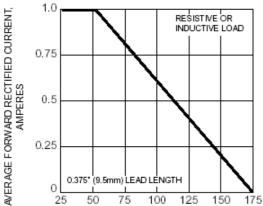
	SYMBOL	RGP	RGP	RGP	RGP	RGP	RGP	RGP	units
		10A	10B	10D	10G	10J	10K	10M	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified	If(av)	1.0							А
Current 3/8"lead length at Ta =55°C	li(av)								
Peak Forward Surge Current 8.3ms single	Ifsm	30.0							A
half sine-wave superimposed on rated load	_								
Maximum Forward Voltage at rated Forward	Vf	1.3							V
Current and 25°C									
Maximum full load reverse current full cycle	lr(av) 100.0						μΑ		
average at 55°C Ambient	(5)								μΛ
Maximum DC Reverse Current Ta =25°C	Ir	5.0							μΑ
at rated DC blocking voltage Ta =150°C	200.0								μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	150 250 500					00	nS	
Typical Junction Capacitance (Note 2)	Cj	15.0							pF
Typical Thermal Resistance (Note 3)	R(ja)	55.0							°C /W
Storage and Operating Junction Temperature	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 RGP10A THRU RGP10M



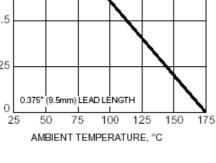
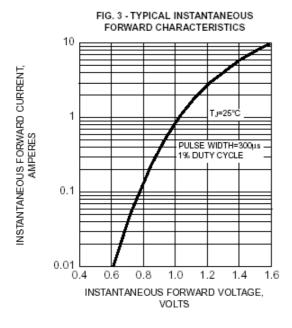
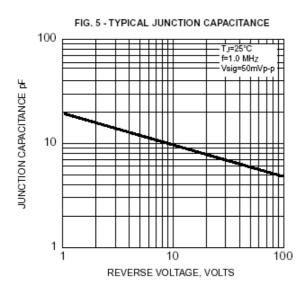
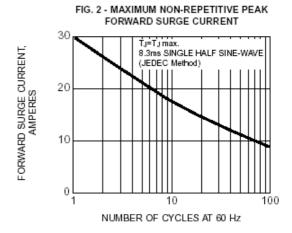
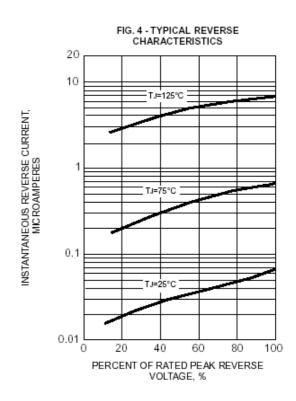


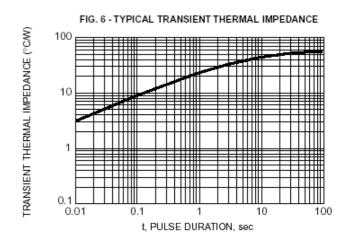
FIG. 1 - FORWARD CURRENT DERATING CURVE











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