RGP20A THRU RGP20J

GLASS PASSIVATED JUNCTION FAST SWITCHING PLASTIC RECTIFIER

Reverse Voltage - 50 to 600 Volts

Forward Current - 2.0 Amperes

Dimensions in inches and (millimeters) * Glass-plastic encapsulation technique is covered by Patent No. 3,996,602 and brazed-lead assembly by Patent No. 3,930,306



◆ Plastic package

- has Underwriters Laboratory Flammability Classification 94V-0
- High temperature metallurgically bonded construction
- Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- Fast switching for high efficiency
- ◆ 2.0 Ampere operation at T_A=55°C with no thermal runaway
- Typical I_R less than 0.2μA
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic over solid glass body Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Mounting Position: Any Weight: 0.03 ounce, 0.8 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

		SYMBOLS	RGP 20A	RGP 20B	RGP 20D	RGP 20G	RGP 20J	UNITS
Maximum repetitive peak reverse voltage		Vrrm	50	100	200	400	600	Volts
Maximum RMS voltage		Vrms	35	70	140	280	420	Volts
Maximum DC blocking voltage		VDC	50	100	200	400	600	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C		l(AV)	2.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	80.0					Amps
Maximum instantaneous forward voltage at 2.0A		VF	1.3				Volts	
Maximum DC reverse current at rated DC blocking voltage	TA=25°C TA=125°C	IR			5.0 100.0			μΑ
Maximum full load reverse current, full cycle average, 0.375" (9.5mm) lead length at TA=55°C		I _{R(AV)}	100.0					μΑ
Maximum reverse recovery time (NOTE 1)		trr	150.0 250			ns		
Typical junction capacitance (NOTE 2)		CJ	35.0					pF
Typical thermal resistance (NOTE 3)		Røja	22.0					°C/W
Operating junction and storage temperature range		TJ, TSTG	-65 to +175					°C

NOTES:

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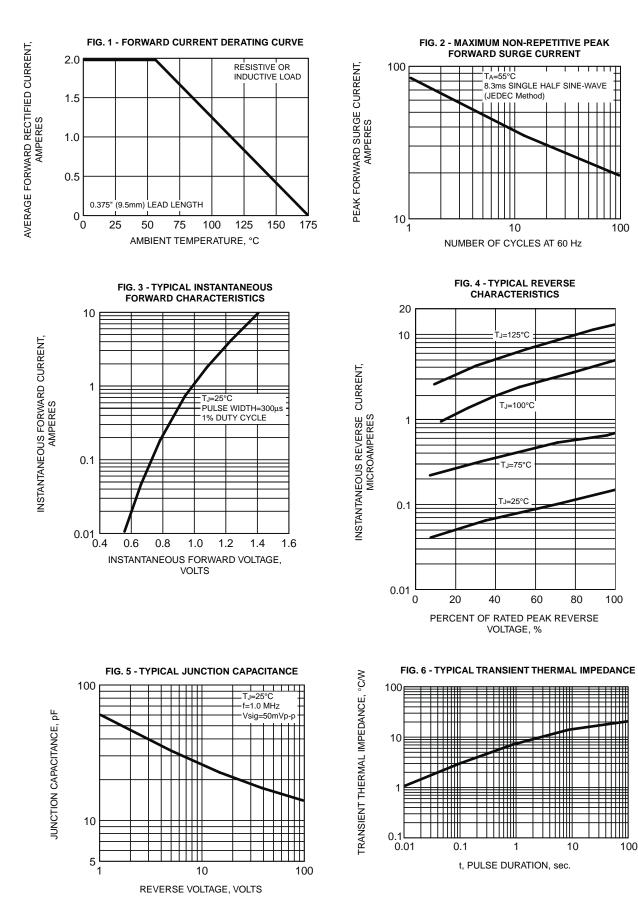
(1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A

(2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

(3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES RGP20A THRU RGP20J



GENERAL SEMICONDUCTOR[®]