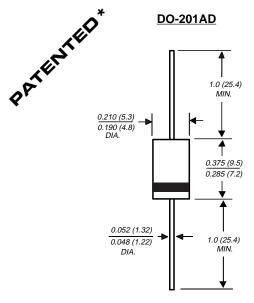
RGP30A THRU RGP30M

GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 3.0 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



FEATURES

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

MECHANICAL DATA

Case: JEDEC DO-201AD molded plastic over glass body **Terminals:** Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.04 ounce, 1.12 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

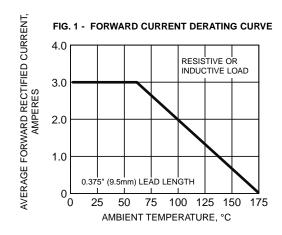
	SYMBOLS	RGP 30A	RGP 30B	RGP 30D	RGP 30G	RGP 30J	RGP 30K	RGP 30M	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at T _A =55°C	I _(AV)	3.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	125.0							Amps
Maximum instantaneous forward voltage at 3.0A	VF	1.3							Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	lR	5.0 100.0							μА
Maximum full load reverse current, full cycle average 0.375" (9.5mm) lead length at Ta=55°C	I _{R(AV)}	100.0							μА
Maximum reverse recovery time (NOTE 1)	t _{rr}		1:	50		250	50	0	ns
Typical junction capacitance (NOTE 2)	CJ	60.0						pF	
Typical thermal resistance (NOTE 3)	R⊕JA	20.0						°C/W	
Operating junction and storage temperature range	T _J ,T _{STG}	-65 to +175							°C

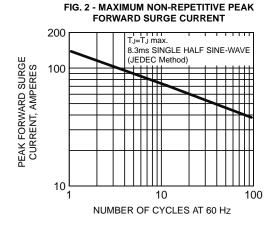
NOTES

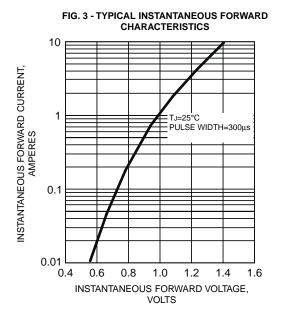
- (1) Reverse recovery test conditions: IF=0.5A, IR=1.0A, I_{rr}=0.25A
- (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (3) Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

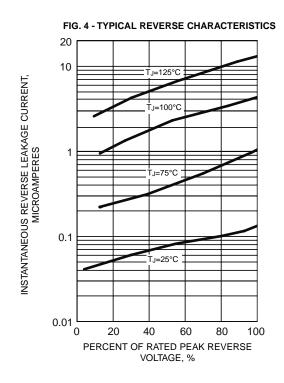


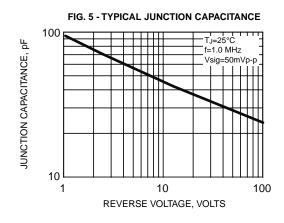
RATINGS AND CHARACTERISTIC CURVES RGP30A THRU RGP30M











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