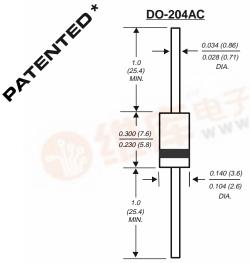
RGP15A THRU RGP15M

GLASS PASSIVATED JUNCTION FAST SWITCHING PLASTIC RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.5 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
- High temperature metallurgically bonded construction
- ◆ Glass passivated cavity-free junction
- Capable of meeting environmental standards of MIL-S-19500
- ◆ 1.5 Ampere operation at T_A=55°C with no thermal runaway
- ♦ Typical IR less than 0.1μA
- High temperature soldering guaranteed: 350°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-204AC 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:** 0.015 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	RGP 15A	RGP 15B	RGP 15D	RGP 15G	RGP 15J	RGP 15K	RGP 15M	UNITS
Maximum repetitive peak reverse voltage	VRRM	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	V _{DC}	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)				1.5			al.	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		a die		50.0	7 11	SC.C	Aro.	Amps
Maximum instantaneous forward voltage at 1.5A	VF	1.3						Volts	
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =150°C	IR	5.0 200.0							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)	trr		1	50		250	50	00	ns
Typical junction capacitance (NOTE 2)	CJ	25.0							pF
Typical thermal resistance (NOTE 3)	R⊝JA	45.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-65 to +175							°C



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

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

Thermat resistance from junction to ambient at 0.375" (9.5mm) looks.

RATINGS AND CHARACTERISTIC CURVES RGP15A THRU RGP15M

