

RGP10AG THRU RGP10MG

GLASS PASSIVATED FAST RECOVERY RECTIFIER

Reverse Voltage – 50 to 1000 V

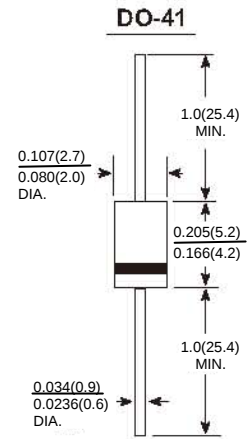
Forward Current – 1 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability

Mechanical Data

- **Case:** JEDEC DO-41 molded plastic body
- **Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

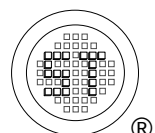
Single phase, half wave, 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	Symbols	RGP 10AG	RGP 10BG	RGP 10DG	RGP 10GG	RGP 10JG	RGP 10KG	RGP 10MG	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current 0.375" (9.5mm)lead length at T _A = 75°C	I _{F(AV)}	1.0							A
Peak forward surge current 8.3 mS single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	30							A
Maximum instantaneous forward voltage at 1.0A	V _F	1.3							V
Maximum DC reverse current T _A = 25°C at rated DC blocking voltage T _A = 100°C	I _R	5.0 50							μA μA
Maximum reverse recovery time ¹⁾	t _{rr}	150				250	500		ns
Typical junction capacitance ²⁾	C _J	15							pF
Typical thermal resistance ³⁾	R _{θJA}	50							°C/W
Operating junction and storage temperature range	T _J ,T _{Stg}	-65 to +150							°C

¹⁾ Reverse recovery condition $I_F = 0.5\text{ A}$, $I_R = 1.0\text{ A}$, $t_{rr} = 0.25\text{ A}$.

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

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



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