

# RGP10AG THRU RGP10MG

## GLASS PASSIVATED FAST RECOVERY RECTIFIER

Reverse Voltage – 50 to 1000 V

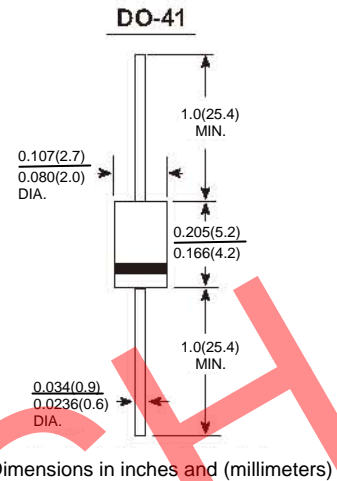
Forward Current – 1 A

### 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



### Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

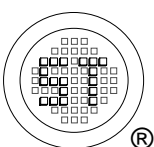
Single phase, half wave, 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	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 $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	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 $T_A = 25^\circ\text{C}$ at rated DC blocking voltage $T_A = 100^\circ\text{C}$	$I_R$	5.0 50							$\mu\text{A}$ $\mu\text{A}$
Maximum reverse recovery time <sup>1)</sup>	$t_{rr}$	150				250	500		ns
Typical junction capacitance <sup>2)</sup>	$C_J$	15							pF
Typical thermal resistance <sup>3)</sup>	$R_{\theta JA}$	50							$^\circ\text{C/W}$
Operating junction and storage temperature range	$T_J, T_{Stg}$	-65 to +150							$^\circ\text{C}$

<sup>1)</sup> Reverse recovery condition  $I_F = 0.5\text{ A}$ ,  $I_R = 1.0\text{ A}$ ,  $I_{rr} = 0.25\text{ A}$ .

<sup>2)</sup> Measured at 1.0 MHz and applied reverse voltage of 4.0 VDC.

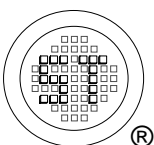
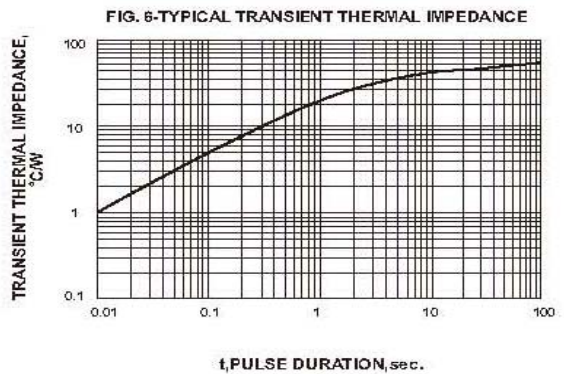
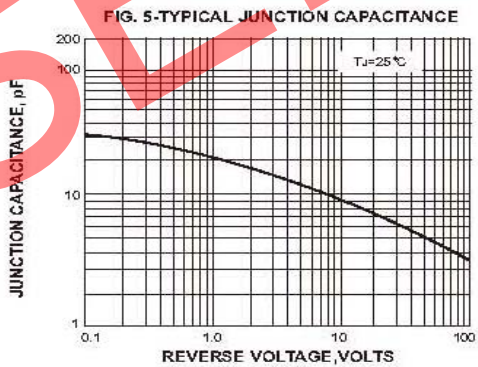
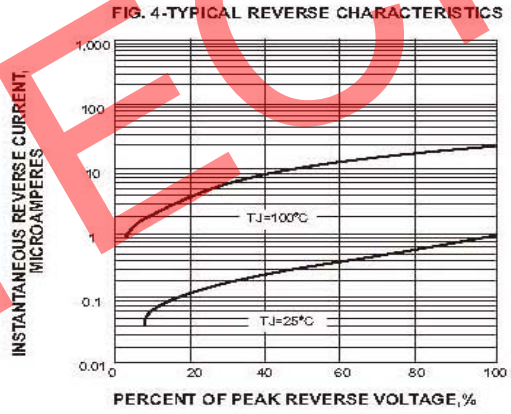
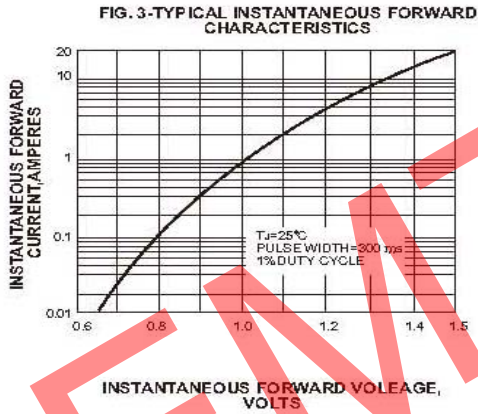
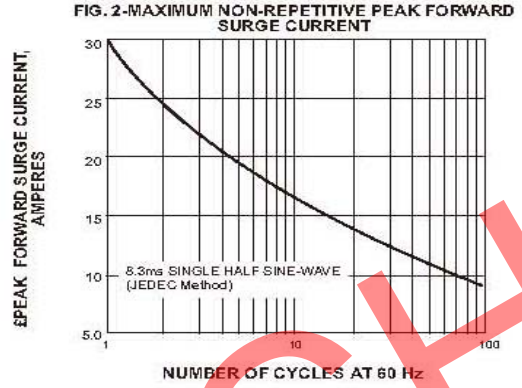
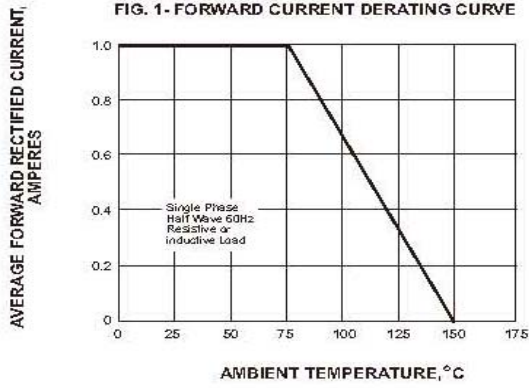
<sup>3)</sup> Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted.



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