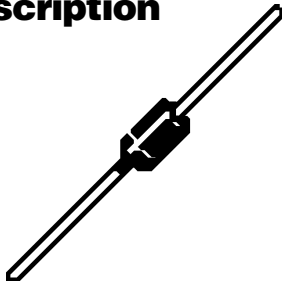


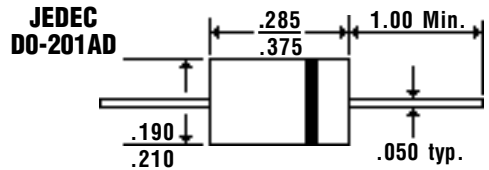
3.0 Amp FAST SWITCHING MEGARECTIFIERS

RGP30A...30M Series

Description



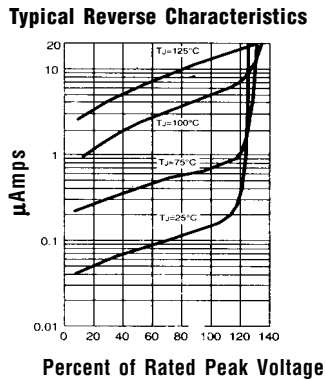
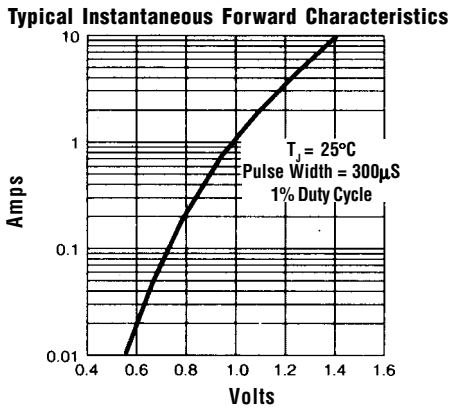
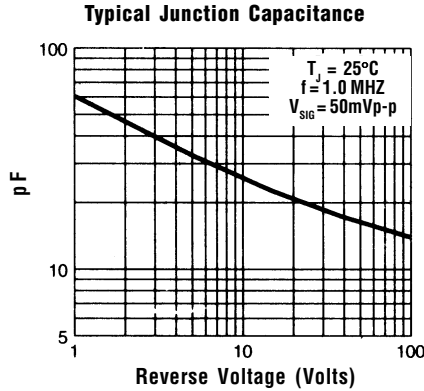
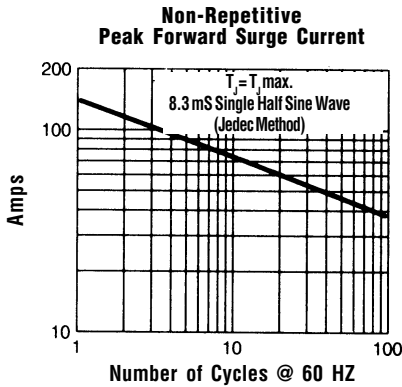
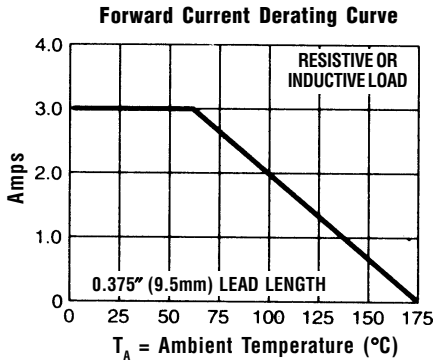
Mechanical Dimensions



Features

- HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION
- SINTERED GLASS CAVITY-FREE JUNCTION
- 3.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY
- TYPICAL $I_R < 0.1 \mu\text{Amp}$

Electrical Characteristics @ 25°C.	RGP30A . . . 30M Series							Units	
Maximum Ratings	RGP30A	RGP30B	RGP30D	RGP30G	RGP30J	RGP30K	RGP30M		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts	
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts	
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$				3.0				Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load				125				Amps	
Forward Voltage @ Rated Forward Current and 25°C... V_F				1.3				Volts	
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$				100				μAmps	
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$				5.0				μAmps
		$T_A = 125^\circ\text{C}$				100			
Typical Junction Capacitance... C_J (Note 1)				60				pF	
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				16				$^\circ\text{C/W}$	
Typical Reverse Recovery Time... t_{RR} (Note 3)	<			150	>			nS	
Operating & Storage Temperature Range... T_J, T_{STRG}				-65 to 175				$^\circ\text{C}$	



Ratings at 25 Deg. C ambient temperature unless otherwise specified.

Single Phase Half Wave, 60 HZ Resistive or Inductive Load.

For Capacitive Load, Derate Current by 20%.

- NOTES:**
1. Measured @ 1 MHz and applied reverse voltage of 4.0V.
 2. Thermal Resistance from Junction to Ambient at 3/8" Lead Length, P.C. Board Mounted.
 3. Reverse Recovery Condition $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.