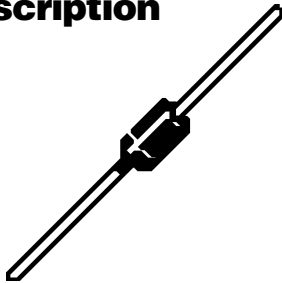


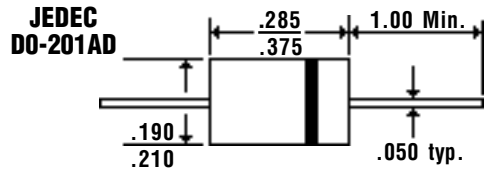
# 3.0 Amp FAST SWITCHING MEGARECTIFIERS

**RGP30A...30M Series**

## Description



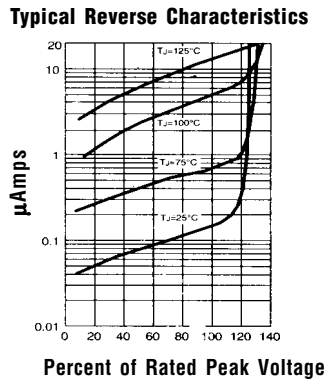
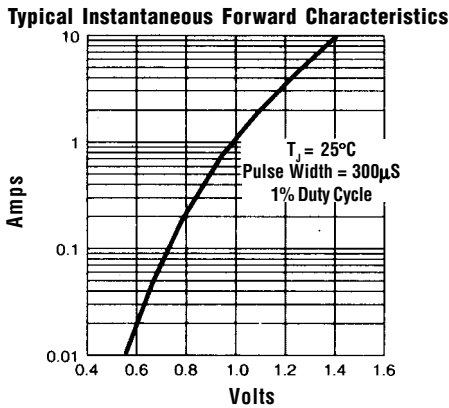
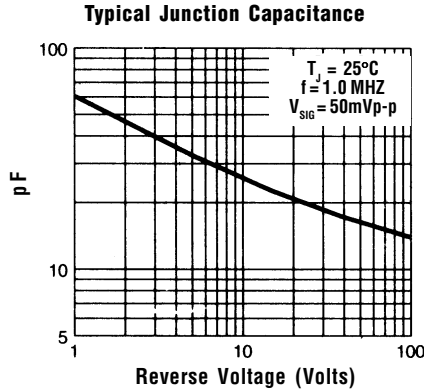
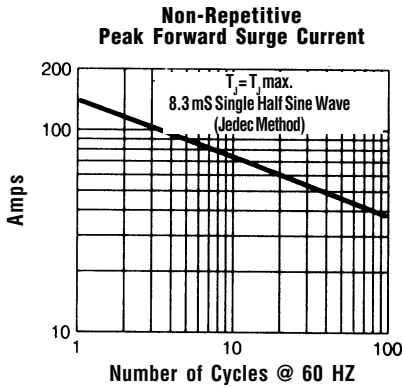
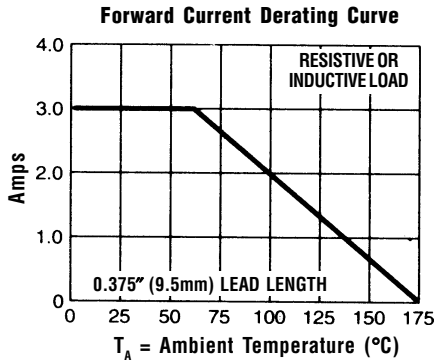
## Mechanical Dimensions



## Features

- **HIGH TEMPERATURE METALLURGICALLY BONDED CONSTRUCTION**
- **3.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**
- **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				$\mu\text{Amps}$
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage				5.0				$\mu\text{Amps}$
	$T_A = 125^\circ\text{C}$				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 ..... >			250	< ..... 500 ..... >			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  $I_F = 0.5\text{A}$ ,  $I_R = 1.0\text{A}$ ,  $I_{RR} = 0.25\text{A}$ .