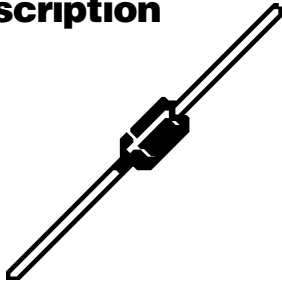


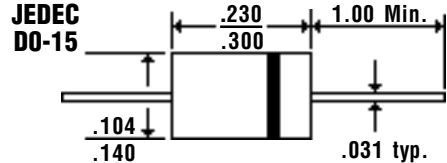
1.5 Amp FAST SWITCHING MEGARECTIFIERS

RGP15A... 15M Series

Description



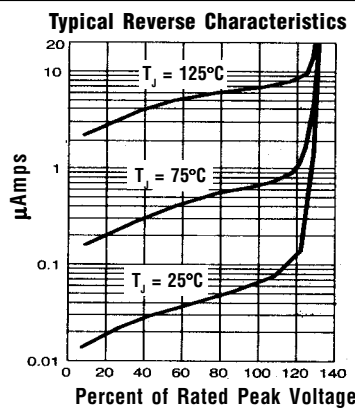
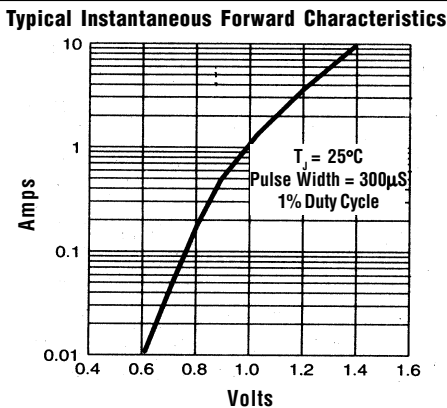
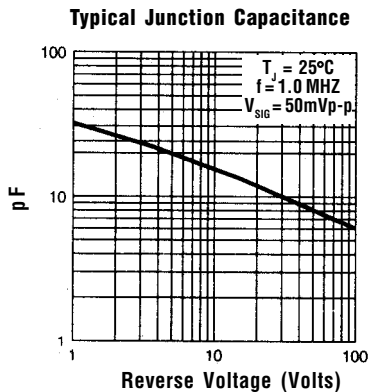
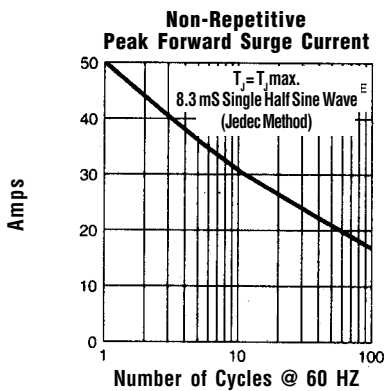
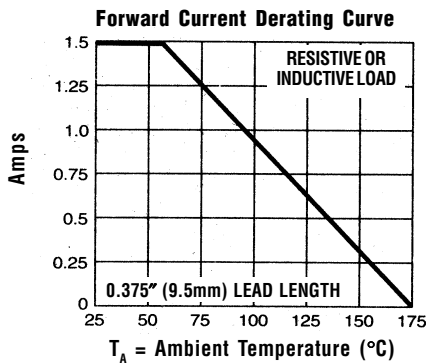
Mechanical Dimensions



Features

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

Electrical Characteristics @ 25°C.	RGP15A . . . 15M Series							Units
Maximum Ratings	RGP15A	RGP15B	RGP15D	RGP15G	RGP15J	RGP15K	RGP15M	
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 @ $T_A = 55^\circ\text{C}$				1.5				Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3mS, 1/2 Sine Wave Superimposed on Rated Load				50				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				5.0				μAmps
				200				μAmps
Typical Junction Capacitance... C_J (Note 1)				25				pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)				45				$^\circ\text{C/W}$
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 $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.