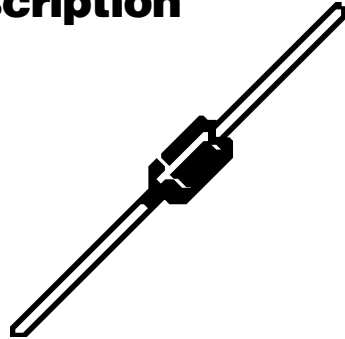


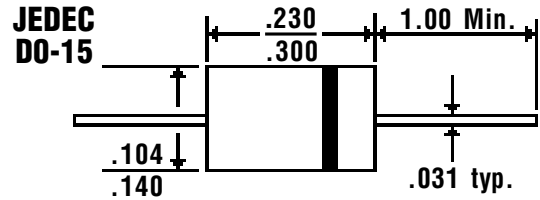
20 Amp FAST SWITCHING MEGARECTIFIERS

RGP20A...20J Series

Description



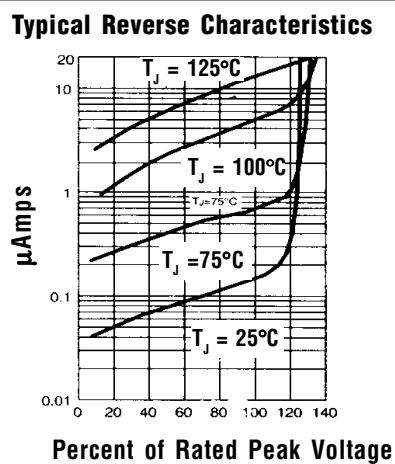
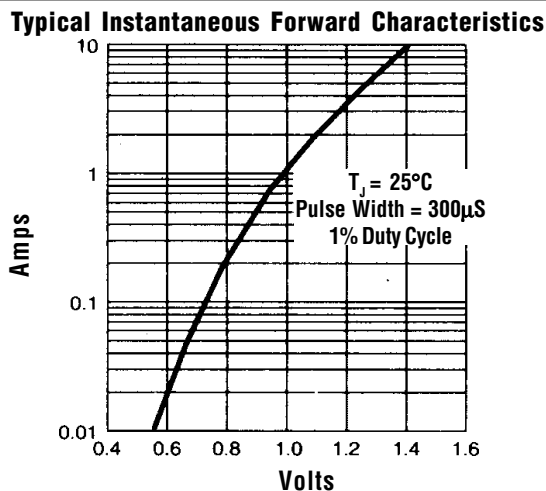
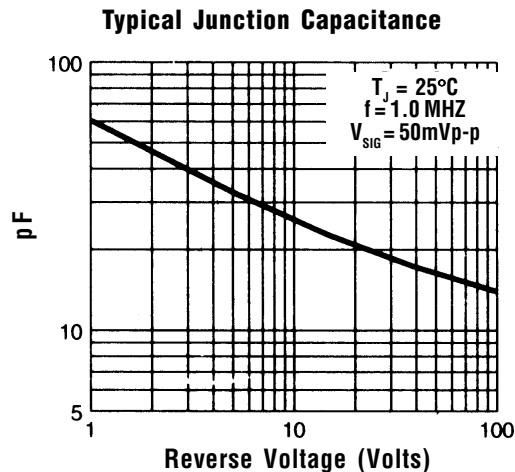
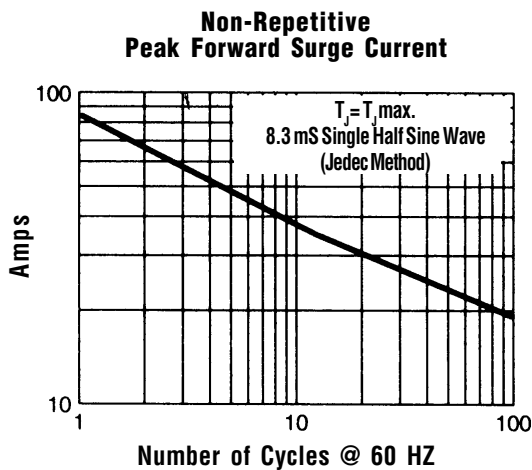
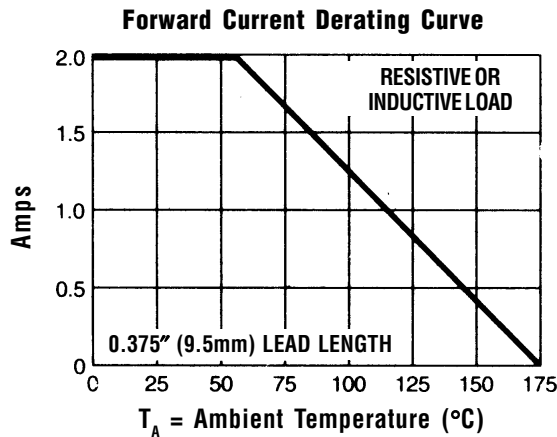
Mechanical Dimensions



Features

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

Electrical Characteristics @ 25°C.	RGP20A . . . RGP20J Series					Units	
Maximum Ratings	RGP20A	RGP20B	RGP20D	RGP20G	RGP20J		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	Volts	
DC Blocking Voltage... V_{DC}	50	100	200	400	600	Volts	
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 55^\circ\text{C}$	2.0					Amps	
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	80					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
	$T_A = 150^\circ\text{C}$					200	μAmps
Typical Junction Capacitance... C_j (Note 1)	35					pF	
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	22					°C/W	
Typical Reverse Recovery Time... t_{RR} (Note 3)	< 150 > < ... 250 ... >					nS	
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 175					°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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.