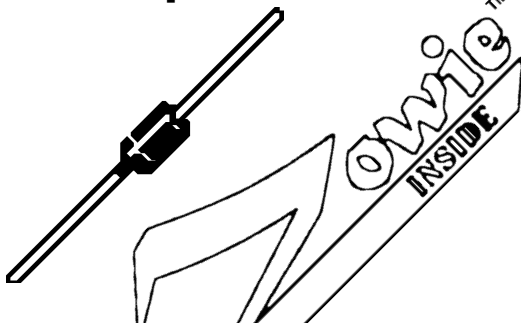


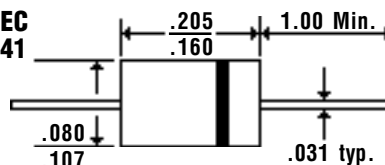


1.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

Description



Mechanical Dimensions

JEDEC
DO-41

Features

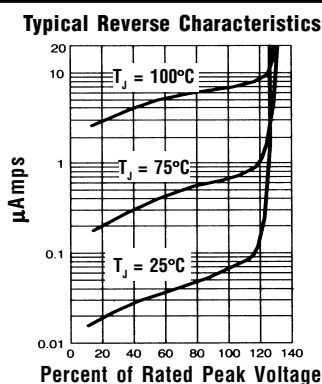
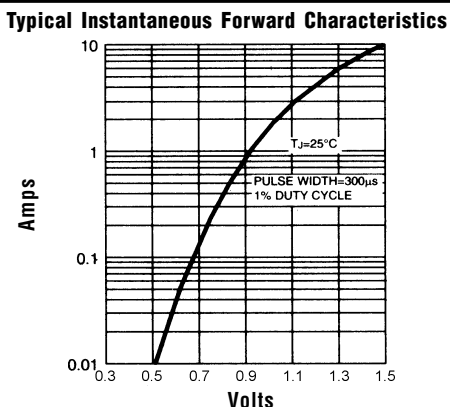
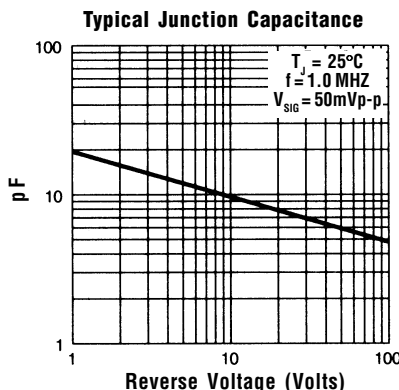
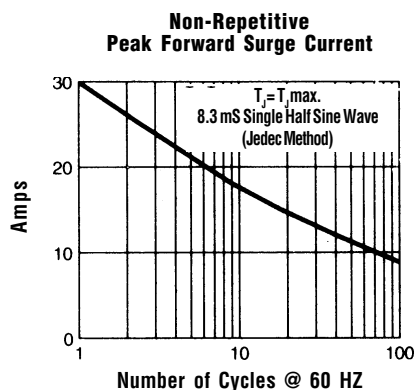
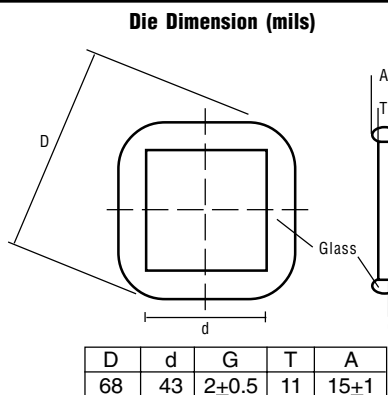
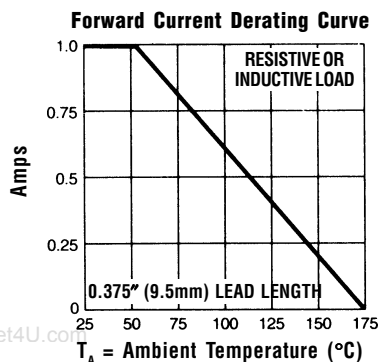
- **LOWEST COST FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED FAST SWITCHING CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.								RGPZ10A . . . 10M Series		Units
Maximum Ratings		10A	10B	10D	10G	10J	10K	10M		
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 @ $T_A = 55^\circ\text{C}$		1.0								Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3mS, 1/2 Sine Wave Superimposed on Rated Load		30								Amps
Forward Voltage @ 1.0A... V_F		1.2								Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$		100								μAmps
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage										μAmps
		$T_A = 25^\circ\text{C}$				5.0				μAmps
		$T_A = 150^\circ\text{C}$				200				μAmps
Typical Junction Capacitance... C_J (Note 1)		15								pF
Maximum Thermal Resistance... $R_{\theta JA}$ (Note 2)		55								$^\circ\text{C/W}$
Maximum Reverse Recovery Time... t_{RR} (Note 3)		< 150				> 250 < 500				nS
Operating & Storage Temperature Range... T_J, T_{STRG}		-65 to 175								$^\circ\text{C}$



1.0 Amp Glass Passivated Sintered Fast Switching Rectifiers

RGpz10A . . . 10M Series



- 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 $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$.

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%.