

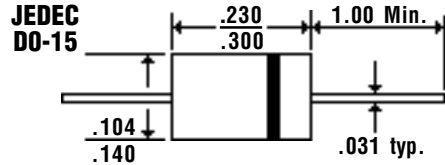
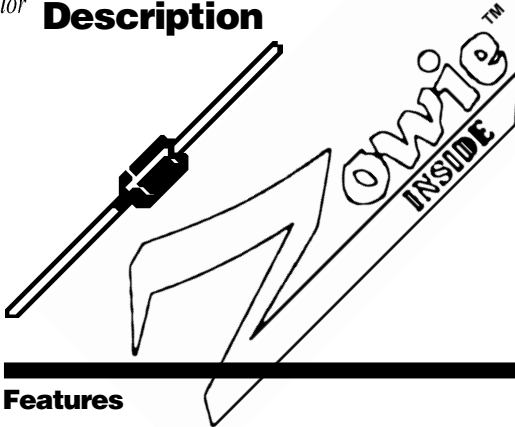


2.0 Amp Glass Passivated Sintered Rectifiers

Description

Mechanical Dimensions

GPZ20A . . . 20M Series

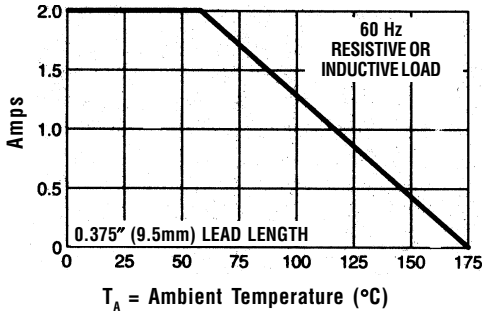


Features

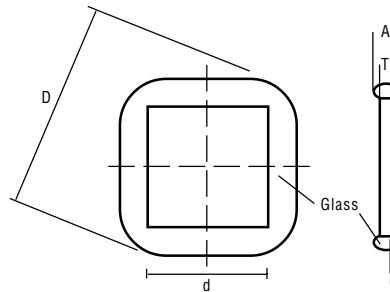
- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **2.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	GPZ20A . . . 20M Series								Units
Maximum Ratings	20A	20B	20D	20G	20J	20K	20M		
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 @ $T_A = 55^\circ\text{C}$	..... 2.0							Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	..... 65							Amps
Forward Voltage @ 2.0A... V_F	< 1.1 .... >		..... 1.0					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 $T_A = 25^\circ\text{C}$	..... 5.0							μAmps
Typical Junction Capacitance... C_j (Note 1)	..... 20							pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	..... 16							$^\circ\text{C/W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)	..... 2.5							μs
Operating & Storage Temperature Range... T_J, T_{STRG}	..... -65 to 175							$^\circ\text{C}$

Forward Current Derating Curve

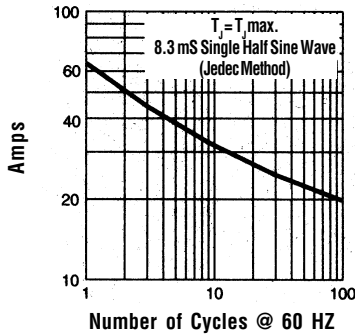


Die Dimension (mils)

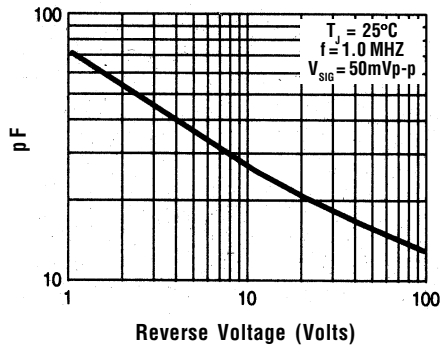


D	d	G	T	A
96	64	2±0.5	11	15±1

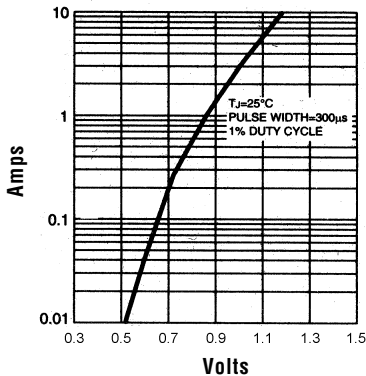
Non-Repetitive Peak Forward Surge Current



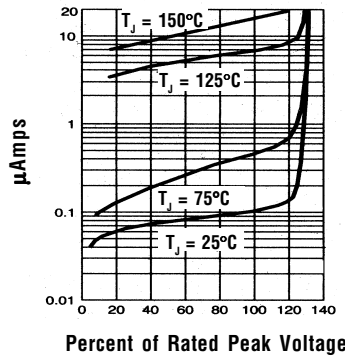
Typical Junction Capacitance



Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



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.