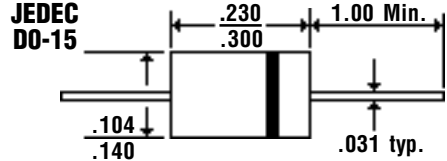
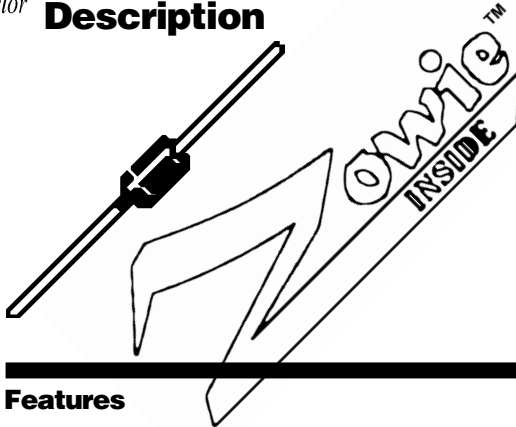


# 2.0 Amp Glass Passivated Sintered Rectifiers

## Description

## Mechanical Dimensions

**GPZ20A . . . 20M Series**

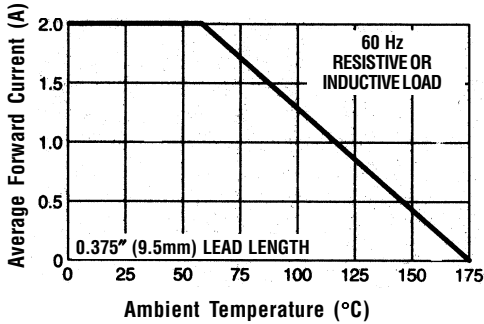


### Features

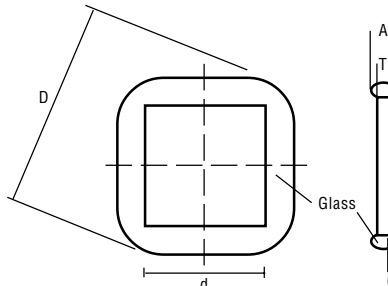
- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST  $V_F$  FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL  $I_R < 100$  nAmps**
- **2.0 AMP OPERATION @  $T_A = 55^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

GPZ20A . . . 20M Series								Units
<b>Maximum Ratings</b>	<b>20A</b>	<b>20B</b>	<b>20D</b>	<b>20G</b>	<b>20J</b>	<b>20K</b>	<b>20M</b>	
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... $I_{F(av)}$ 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
Operating & Storage Temperature Range... $T_J, T_{STRG}$	..... -65 to 175 .....							$^\circ\text{C}$
<b>Electrical Characteristics</b>								
Maximum Forward Voltage @ 2.0A... $V_F$	< ..... 1.1 ..... > < ..... 1.2 ..... >							Volts
Maximum Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 55^\circ\text{C}$	..... 100 .....							$\mu\text{Amps}$
Maximum DC Reverse Current... $I_{R(max)}$ $T_A = 25^\circ\text{C}$ @ Rated DC Blocking Voltage $T_A = 150^\circ\text{C}$	..... 5.0 .....							$\mu\text{Amps}$
	..... 100 .....							
Typical Junction Capacitance... $C_J$ (Note 1)	..... 20 .....							pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	..... 16 .....							$^\circ\text{C}/\text{W}$
Typical Reverse Recovery Time... $t_{RR}$ (Note 3)	..... 2.5 .....							$\mu\text{s}$

**Forward Current Derating Curve**

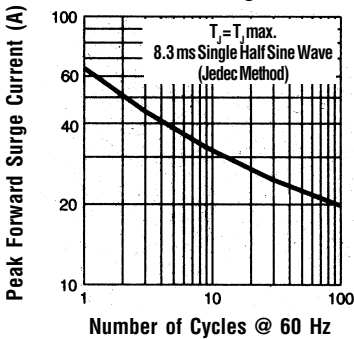


**Die Dimension (mils)**

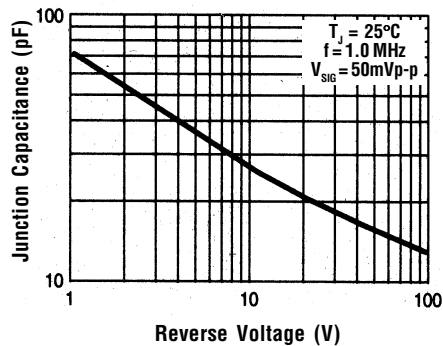


D	d	G	T	A
96	64	2±0.5	11	15±1

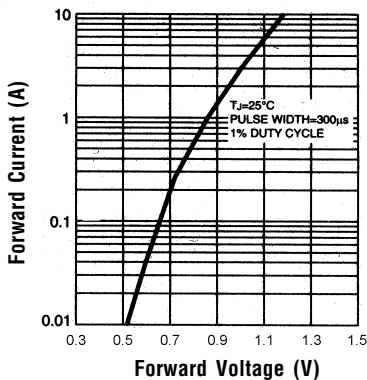
**Non-Repetitive Peak Forward Surge Current**



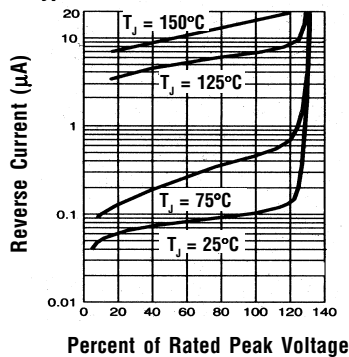
**Typical Junction Capacitance**



**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  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{RR} = 0.25A$ .