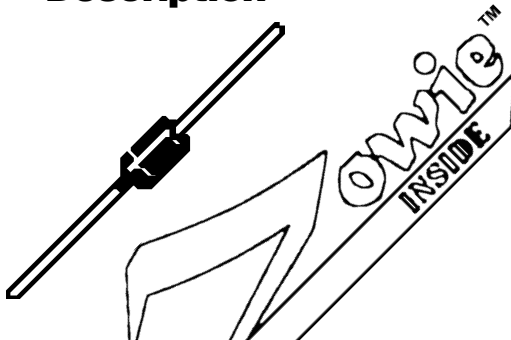




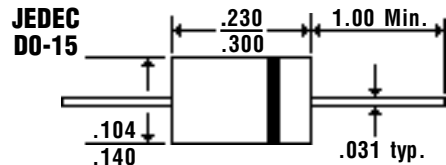
# 2.0 Amp Glass Passivated Sintered Ultra - Fast Rectifiers

## Description

**UGPZ20A . . . 20G Series**



## Mechanical Dimensions



### Features

- **LOWEST COST FOR GLASS SINTERED ULTRA - FAST CONSTRUCTION**
- **LOWEST  $V_f$  FOR GLASS SINTERED ULTRA - FAST 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.	UGPZ20A . . . 20G Series				Units
Maximum Ratings	20A	20B	20D	20G	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	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... $V_f$	< 0.95 >			1.25	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
	$T_A = 150^\circ\text{C}$	200			μAmps
Typical Junction Capacitance... $C_j$ (Note 1)	35				pF
Maximum Thermal Resistance... $R_{\theta JA}$ (Note 2)	22				°C/W
Maximum Reverse Recovery Time... $t_{RR}$ (Note 3)	35				nS
Operating & Storage Temperature Range... $T_J, T_{STRG}$	-65 to 175				°C

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