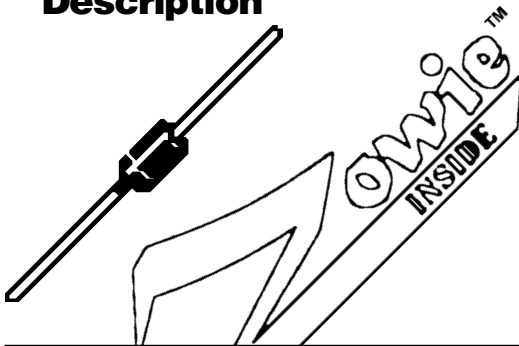




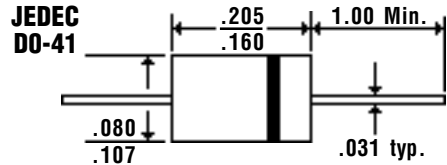
1.0 Amp Glass Passivated Sintered Ultra - Fast Rectifiers

UGPZ10A . . . 10G Series

Description



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**
- **1.0 AMP OPERATION @ $T_A = 55^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	UGPZ10A . . . 10G Series				Units
Maximum Ratings	10A	10B	10D	10G	
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 @ $T_A = 55^\circ\text{C}$	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	< 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	$T_A = 25^\circ\text{C}$		$T_A = 150^\circ\text{C}$		μAmps 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)	35				nS
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 175				$^\circ\text{C}$

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