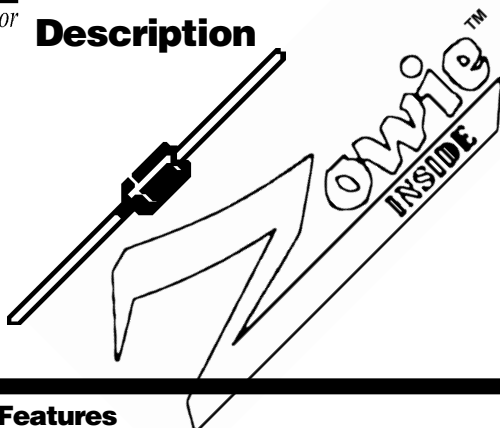


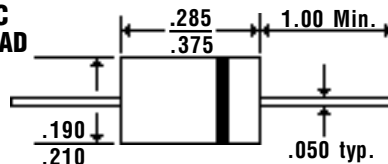


Description



3.0 Amp Glass Passivated Sintered Rectifiers

Mechanical Dimensions

JEDEC
DO-201AD

Features

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

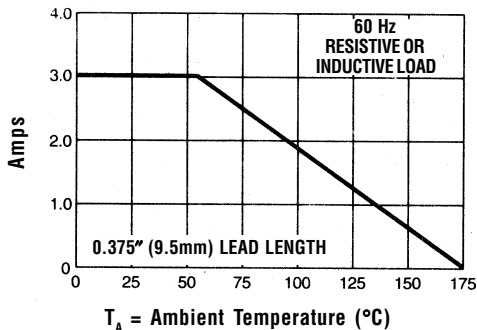
Electrical Characteristics @ 25°C.								GPZ30A . . . 30M Series	Units
Maximum Ratings	30A	30B	30D	30G	30J	30K	30M		
Peak Repetitive Reverse Voltage...V _{RRM}	50	100	200	400	600	800	1000	Volts	
RMS Reverse Voltage...V _{R(rms)}	35	70	140	280	420	560	700	Volts	
DC Blocking Voltage...V _{DC}	50	100	200	400	600	800	1000	Volts	
Average Forward Rectified Current...I _{F(av)} Current 3/8" Lead Length @ T _A = 55°C				3.0				Amps	
Non-Repetitive Peak Forward Surge Current...I _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load				125				Amps	
Forward Voltage @ 3.0A...V _F	< 1.1 >			< 1.0 >			Volts		
Full Load Reverse Current...I _R (av) Full Cycle Average @ T _A = 55°C				100				μAmps	
DC Reverse Current...I _{R(max)} @ Rated DC Blocking Voltage	T _A = 25°C			5.0				μAmps	
	T _A = 150°C			200					
Typical Junction Capacitance...C _J (Note 1)				40				pF	
Typical Thermal Resistance...R _{θJA} (Note 2)				15				°C/W	
Typical Reverse Recovery Time...t _{RR} (Note 3)				2.0				μS	
Operating & Storage Temperature Range...T _J , T _{STRG}				-65 to 175				°C	



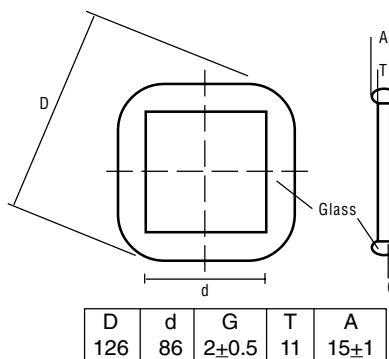
3.0 Amp Glass Passivated Sintered Rectifiers

GPZ30A . . . 30M Series

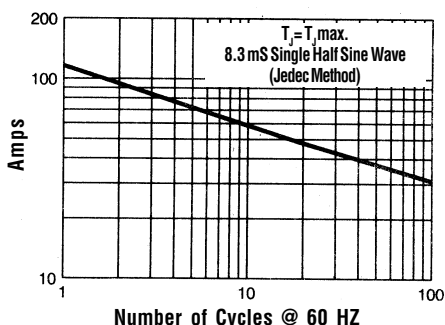
Forward Current Derating Curve



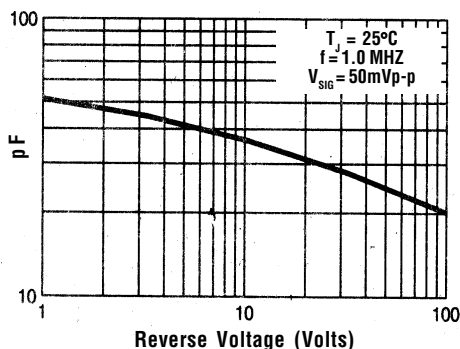
Die Dimension (mils)



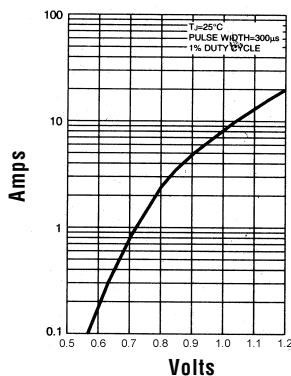
Non-Repetitive Peak Forward Surge Current



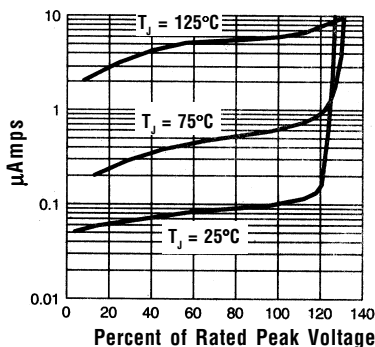
Typical Junction Capacitance



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