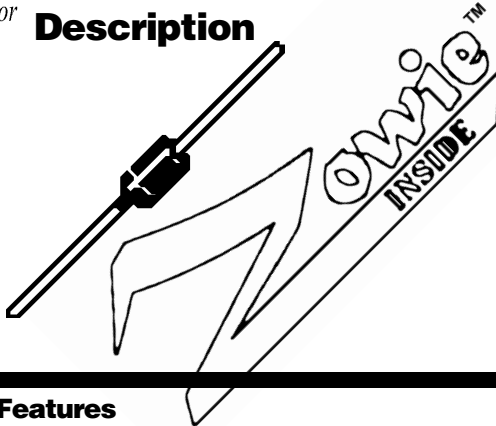
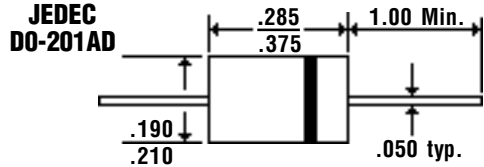


Description



3.0 Amp Glass Passivated Sintered Rectifiers

Mechanical Dimensions



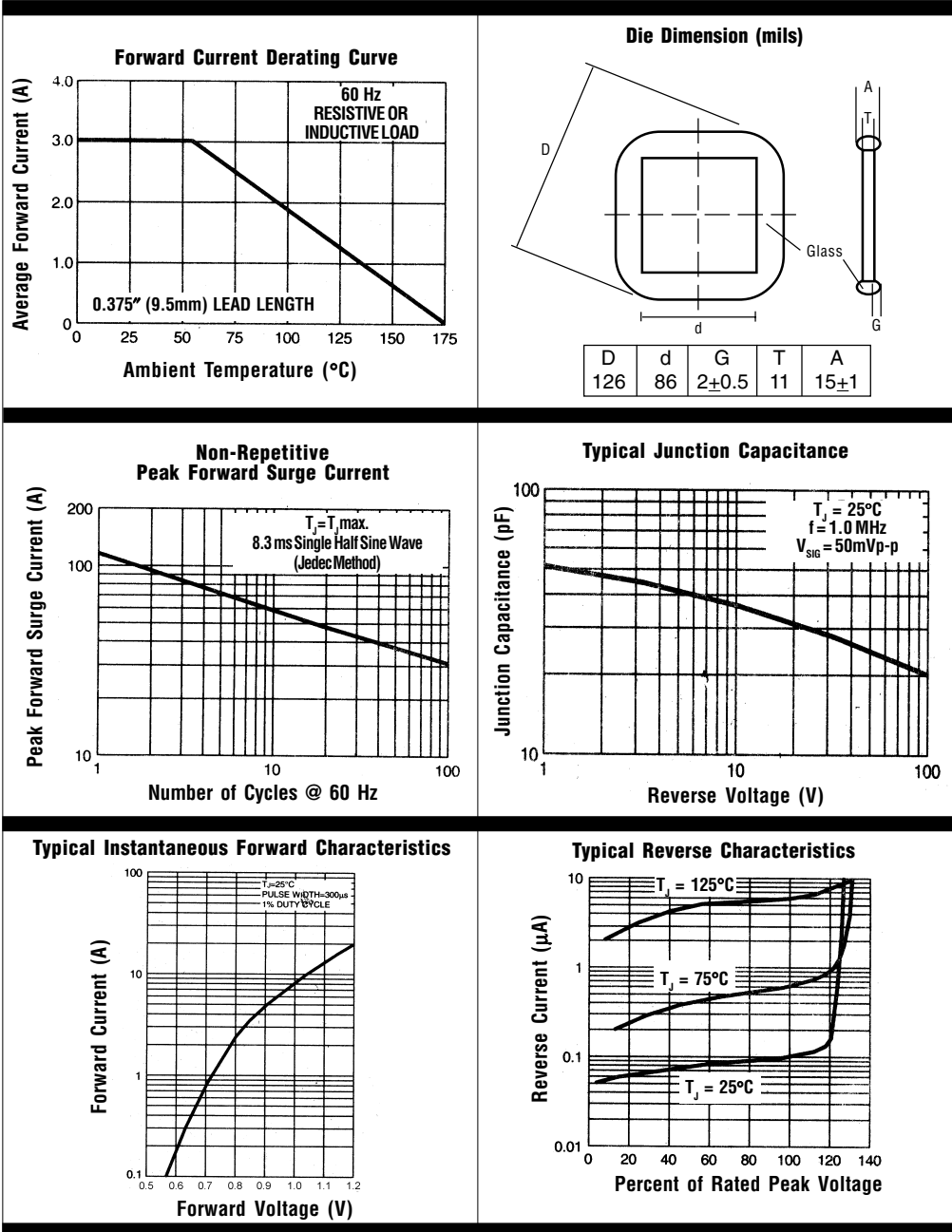
Features

- **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**

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... $I_{F(av)}$ 3/8" Lead Length @ $T_A = 55^\circ\text{C}$	.....			3.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3ms, 1/2 Sine Wave Superimposed on Rated Load	.....			125	.....			Amps
Operating & Storage Temperature Range... T_J, T_{STRG}	.....			-65 to 175	.....			$^\circ\text{C}$
Electrical Characteristics									
Maximum Forward Voltage @ 3.0A... 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	.....			μAmps
Maximum DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage	.....			5.0	.....			μAmps
	.....			100	.....			
Typical Junction Capacitance... C_J (Note 1)	.....			40	.....			pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....			15	.....			$^\circ\text{C/W}$
Typical Reverse Recovery Time... t_{RR} (Note 3)	.....			2.0	.....			μs

3.0 Amp Glass Passivated Sintered Rectifiers

GPZ30A . . . 30M Series



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

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%.