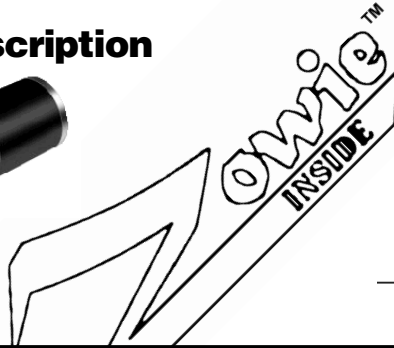




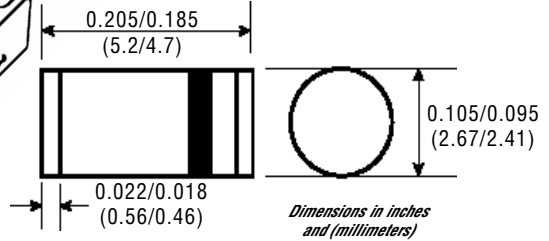
1.0 Amp Glass Passivated Sintered Rectifiers

GLZ41A . . . 41M Series

Description



Mechanical Dimensions



Features

- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.0 AMP OPERATION @ $T_A = 75^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

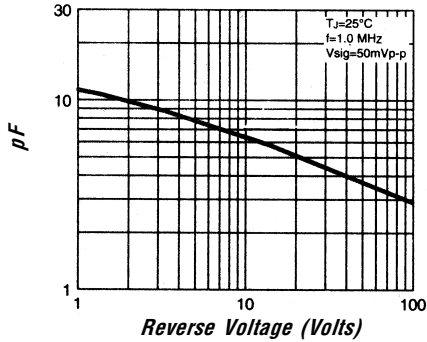
Electrical Characteristics @ 25°C.	GLZ41A . . . 41M Series							Units
Maximum Ratings	41A	41B	41D	41G	41J	41K	41M	
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ Current 3/8" Lead Length @ $T_A = 75^\circ\text{C}$	1.0							Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} ½ Sine Wave Superimposed on Rated Load	30							Amps
Forward Voltage @ 1.0A... V_F	< 1.0 > < 1.1 >							Volts
Full Load Reverse Current... $I_R(av)$ Full Cycle Average @ $T_A = 75^\circ\text{C}$	30							µAmps
DC Reverse Current... I_R @ Rated DC Blocking Voltage	10							µAmps
	$T_A = 125^\circ\text{C}$							µAmps
Typical Junction Capacitance... C_j (Note 1)	8.0							pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	75							°C/W
Operating & Storage Temperature Range... T_J, T_{STRG}	-65 to 175							°C
Polarity Color Band (2nd Band)	Gray	Red	Orange	Yellow	Green	Blue	Violet	



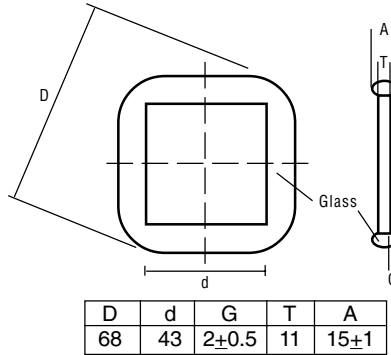
1.0 Amp Glass Passivated Sintered Rectifiers

GLZ41A . . . 41M Series

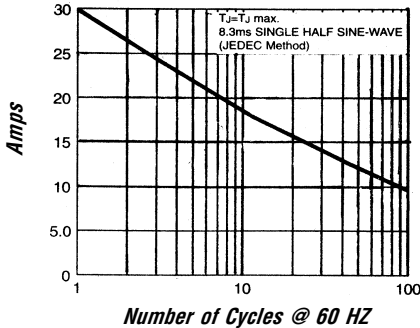
Typical Junction Capacitance



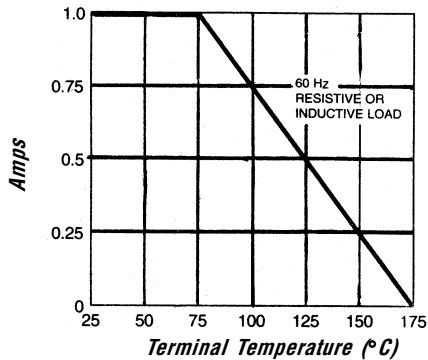
Die Dimension (mils)



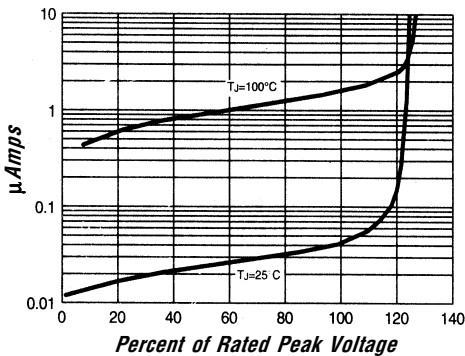
Non-Repetitive Peak Forward Surge Current



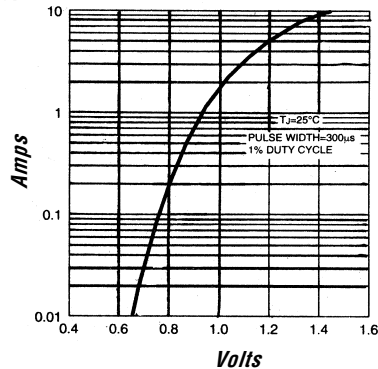
Forward Current Derating Curve



Typical Reverse Characteristics



Typical Instantaneous Forward 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, 6.0mm² copper pad to each terminal.