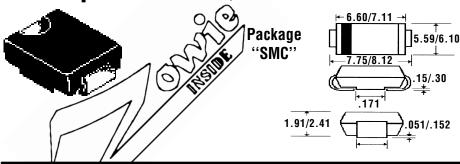


Preliminary Data Sheet | 3.0 Amp Glass Passivated Sintered Rectifiers

Description Mechanical Dimensions



Features

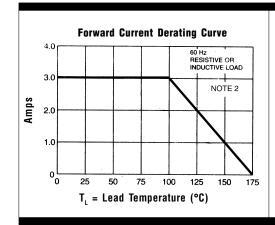
- LOWEST COST FOR GLASS SINTERED CONSTRUCTION
- LOWEST V, FOR GLASS SINTERED CONSTRUCTION
- \blacksquare TYPICAL I_R < 100 nAmps

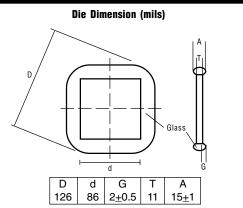
- 3.0 AMP OPERATION @ T_x = 100°C, WITH NO THERMAL RUNAWAY
- SINTERED GLASS CAVITY-FREE **JUNCTION**

Electrical Characteristics @ 25°C.	GFZ3A 3M Series							Units
Maximum Ratings	3 A	3B	3D	3 G	3J	3 K	3 M	
Peak Repetitive Reverse VoltageV _{RRM}	50	100	200	400	600	800	1000	Volts
RMS Reverse VoltageV _{R(rms)}	35	70	140	280	420	560	700	Volts
DC Blocking Voltage $V_{\rm DC}$	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current $I_{F(av)}$ @ $T_A = 100$ °C (Note 2)				3.0				Amps
Non-Repetitive Peak Forward Surge CurrentI _{FSM} 8.3mS, ½ Sine Wave Superimposed on Rated Load	125							Amps
Forward Voltage @ 3.0AV _F	< 1.1> <							Volts
Full Load Reverse Current $I_R(av)$ Full Cycle Average @ $T_A = 100$ °C	100							μAmps
$ \begin{array}{cccc} \text{DC Reverse CurrentI}_{R(\text{max})} & & \text{T}_{_{A}} = 25^{\circ}\text{C} \\ \text{@ Rated DC Blocking Voltage} & & \text{T}_{_{A}} = 150^{\circ}\text{C} \\ \end{array} $	5.0 200							μAmps
Typical Junction CapacitanceC _J (Note 1)				40				pF
Typical Thermal ResistanceR _{eJA} (Note 2)				15				°C/W
Typical Reverse Recovery Timet _{RR} (Note 3)				2.0				μS
Operating & Storage Temperature Range T_J , T_{STRG}				65 to 17	5			°C

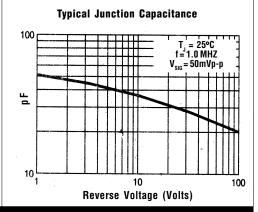


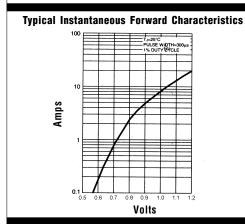
Preliminary Data Sheet | 3.0 Amp Glass Passivated | Sintered Rectifiers

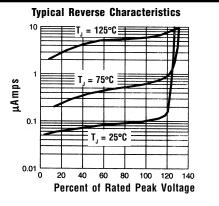




Non-Repetitive Peak Forward Surge Current 200 $T_j = T_j max$. 8.3 mS Single Half Sine Wave (Jedec Method) 100 10 L 10 100 Number of Cycles @ 60 HZ







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. 8.0mm² (.013mm thick) land areas.
 - 3. Reverse Recovery Condition $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$.