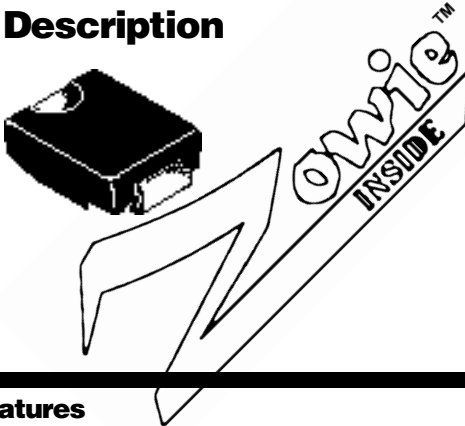


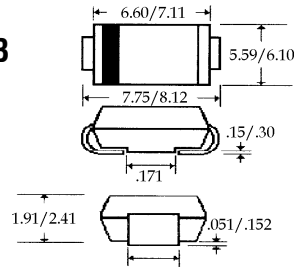
Description



3.0 Amp Glass Passivated Sintered Rectifiers

Mechanical Dimensions

DO-214AB
(SMC)

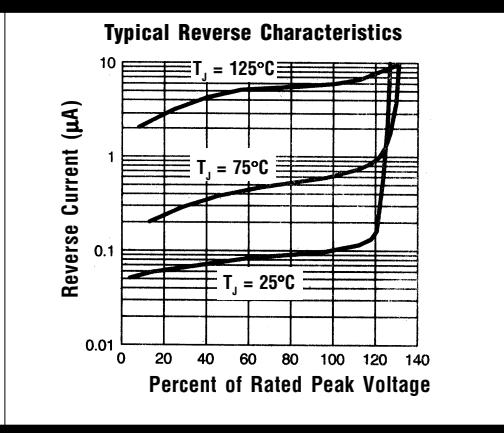
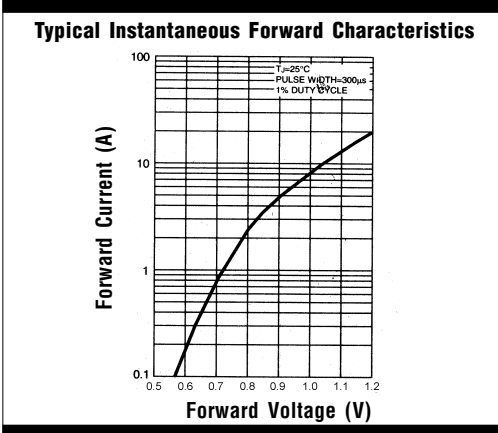
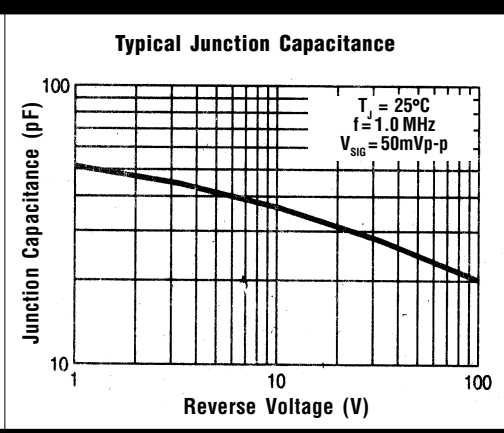
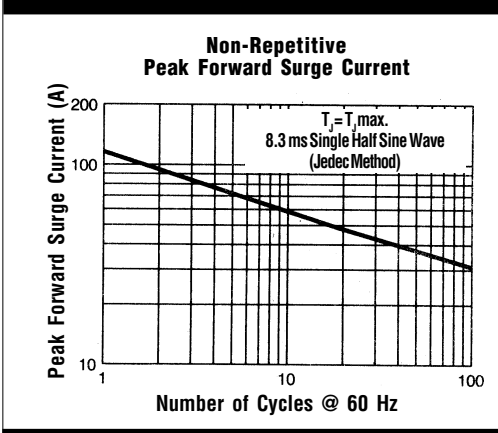
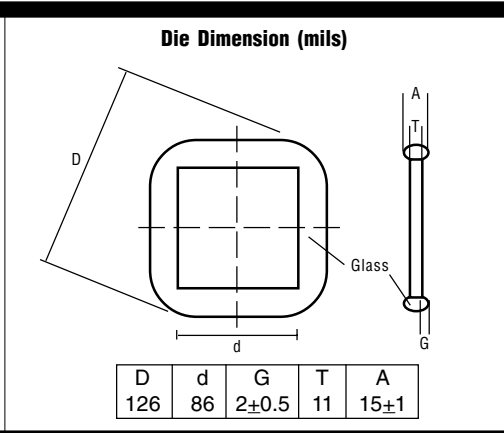
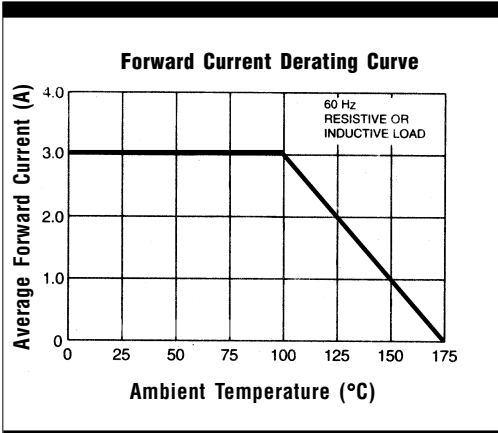


(Dimensions in mm)

Features

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

GFZ30A . . . 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... $I_{F(av)}$ @ $T_A = 100^\circ\text{C}$ (Note 2)				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



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. 5.0mm² (.013mm thick) land areas.
 3. Reverse Recovery Condition I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A.