



1.0 Amp Glass Passivated Sintered Rectifiers

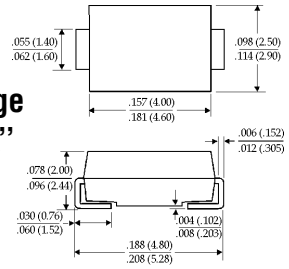
GFZ10A . . . 10Q Series

Description



Mechanical Dimensions

Package
"SMA"



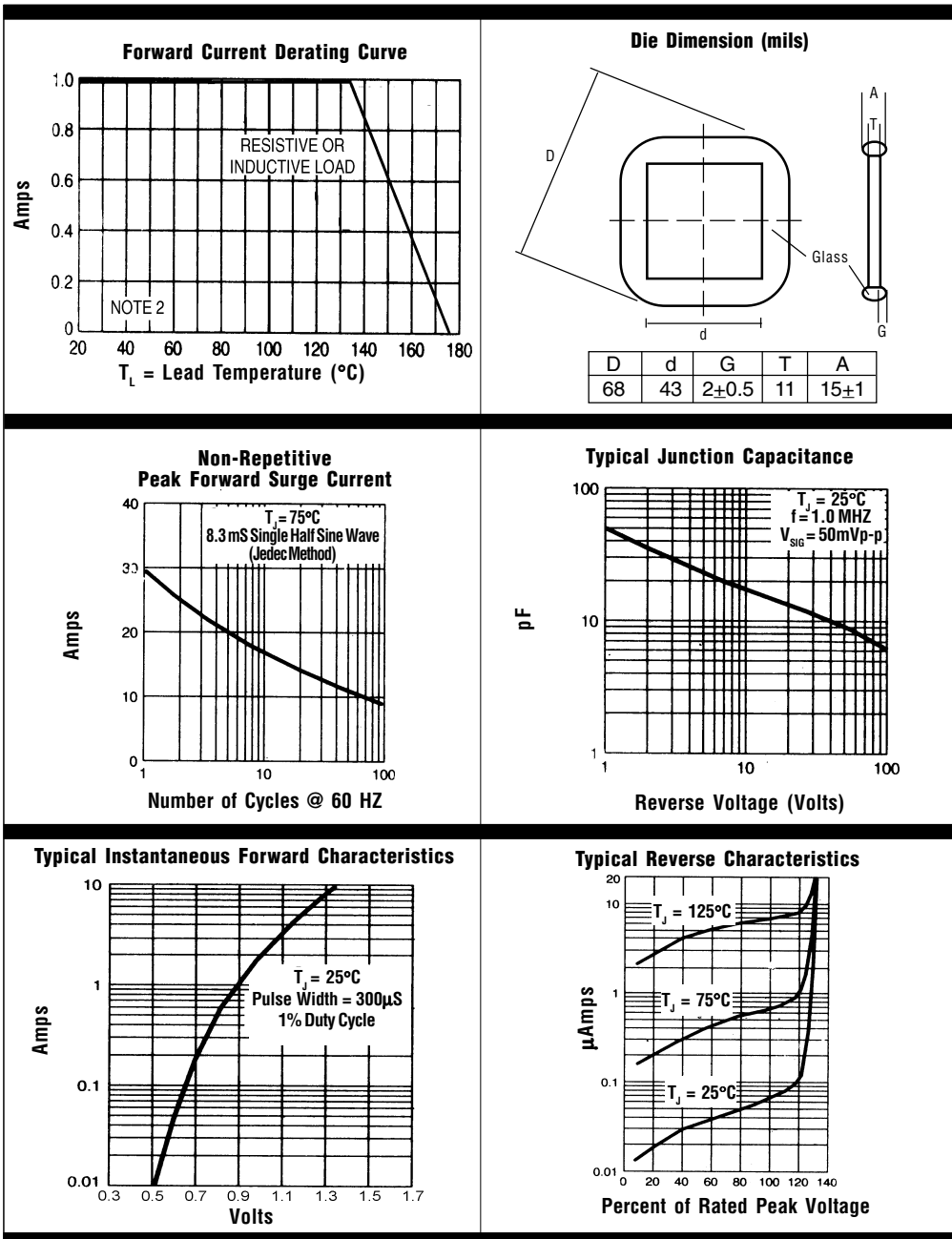
Features

- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST V_F FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL $I_R < 100$ nAmps**
- **1.0 AMP OPERATION @ $T_A = 135^\circ\text{C}$, WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

Electrical Characteristics @ 25°C.	GFZ10A . . . 10Q Series										Units
Maximum Ratings	10A	10B	10D	10G	10J	10K	10M	10N	10Q		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	1000	1100	1200		Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	770	840		Volts
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	1000	1100	1200		Volts
Average Forward Rectified Current... $I_{F(av)}$ @ $T_A = 135^\circ\text{C}$ (Note 2)	.....				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	<		1.1	..... >		< .....		1.2	..... >		Volts
Full Load Reverse Current... $I_{R(av)}$ Full Cycle Average @ $T_A = 75^\circ\text{C}$	.....				30	.....					µAmps
DC Reverse Current... $I_{R(max)}$ @ Rated DC Blocking Voltage			$T_A = 25^\circ\text{C}$	.....		5.0	.....			µAmps	
			$T_A = 150^\circ\text{C}$	.....		100	.....			µAmps	
Typical Junction Capacitance... C_J (Note 1)	<		8.0	..... >		< ....		7.0	.... >		pF
Typical Thermal Resistance... $R_{\theta JA}$ (Note 2)	.....				45	.....					°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

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