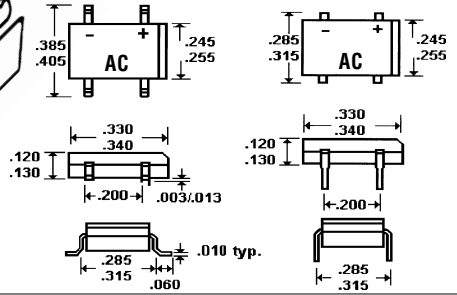
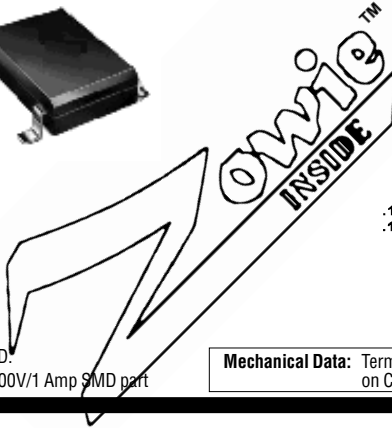




# 1.0 Amp Glass Passivated Sintered Bridge Rectifiers

## Mechanical Dimensions

DFZ005 . . . 10 Series



Add Suffix "S" for SMD.  
Example: DFZ04S = 400V/1 Amp SMD part

**Mechanical Data:** Terminal Leads - Solderable per Mil Std. 202. Polarity - Molded on Case. Mounting Position - Any. Weight - 0.04 Ounces, 1 Gram.

### Features

- **LOWEST COST FOR GLASS SINTERED CONSTRUCTION**
- **LOWEST  $V_F$  FOR GLASS SINTERED CONSTRUCTION**
- **TYPICAL  $I_R < 100$  nAmps**
- **1.0 AMP OPERATION @  $T_A = 65^\circ\text{C}$ , WITH NO THERMAL RUNAWAY**
- **SINTERED GLASS CAVITY-FREE JUNCTION**

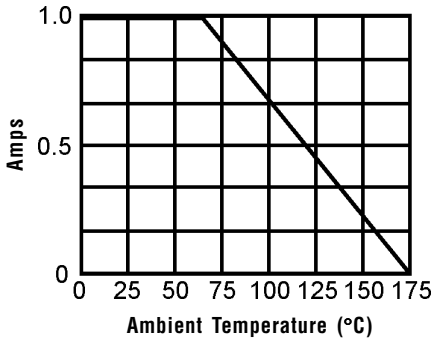
Electrical Characteristics @ 25°C.	DFZ005 . . . 10 Series							Units
Maximum Ratings	DFZ005	DFZ01	DFZ02	DFZ04	DFZ06	DFZ08	DFZ10	
Peak Repetitive Reverse Voltage... $V_{RRM}$	50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	700	Volts
DC Blocking Voltage... $V_{DC}$	50	100	200	400	600	800	1000	Volts
Average Forward Rectified Current... $I_{F(av)}$ $T_A = 65^\circ\text{C}$	.....			1.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... $I_{FSM}$ 8.3 ms Single ½ Sine Wave Imposed on Rated Load	.....			50	.....			Amps
Point Rating for Fusing...(T < 8.3 ms)	.....			5.0	.....			A <sup>2</sup> S
Forward Voltage... $V_F$ Bridge Element @ 1.0 Amp	.....			1.0	.....			Volts
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage	$T_J = 25^\circ\text{C}$		$T_J = 125^\circ\text{C}$		.....			$\mu\text{A}$ mA
Operating Temperature Range... $T_J$	.....			-55 to 175	.....			$^\circ\text{C}$
Storage Temperature Range... $T_{STRG}$	.....			-55 to 175	.....			$^\circ\text{C}$



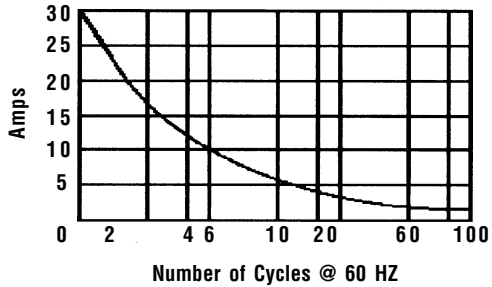
# 1.0 Amp Glass Passivated Sintered Bridge Rectifiers

**DFZ005 . . . 10 Series**

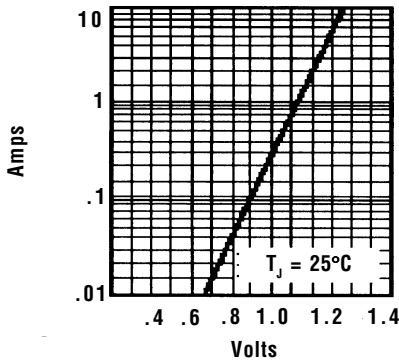
**Forward Current Derating Curve**



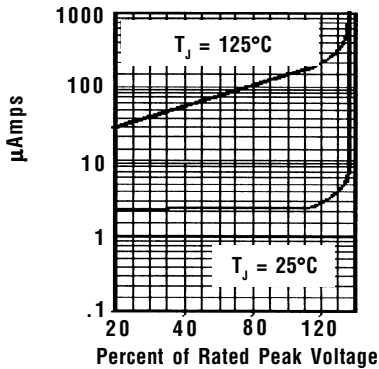
**Non-Repetitive Peak Forward Surge Current**



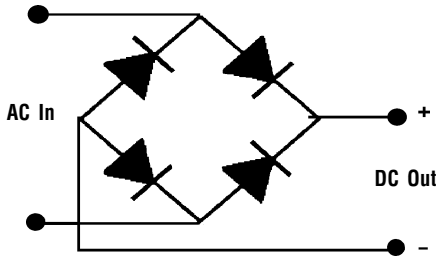
**Typical Instantaneous Forward Characteristics**



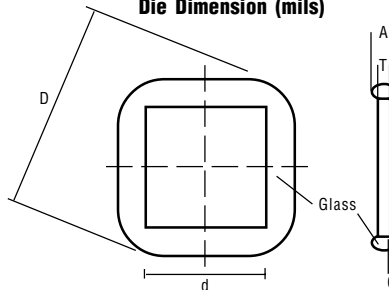
**Typical Reverse Characteristics**



**Electrical Description**



**Die Dimension (mils)**



D	d	G	T	A
68	43	2±0.5	11	15±1

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%.