



Description

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**

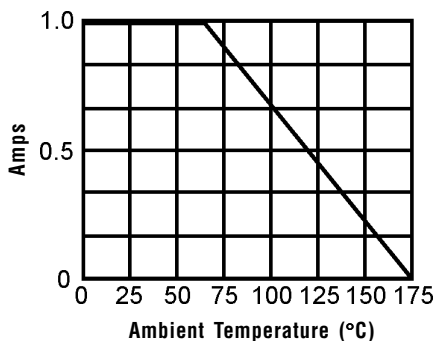
Electrical Characteristics @ 25°C.								DFZ005 . . . 10 Series	Units
Maximum Ratings		DFZ005	DFZ01	DFZ02	DFZ04	DFZ06	DFZ08	DFZ10	
Peak Repetitive Reverse Voltage... V_{RRM}		50	100	200	400	600	800	1000	Volts
RMS Reverse Voltage... $V_{R(rms)}$		35	70	140	280	420	560	700	Volts
DC Blocking Voltage... 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 ² S
Forward Voltage... V_F Bridge Element @ 1.0 Amp		1.0							Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	10 0.5							μA mA
Operating Temperature Range... T_J		-55 to 175							°C
Storage Temperature Range... T_{STRG}		-55 to 175							°C



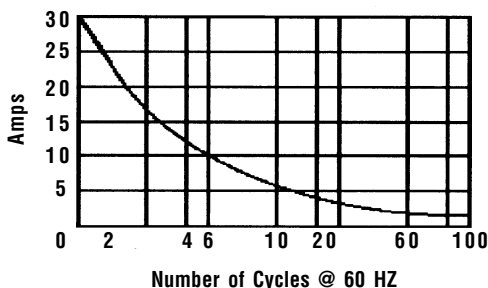
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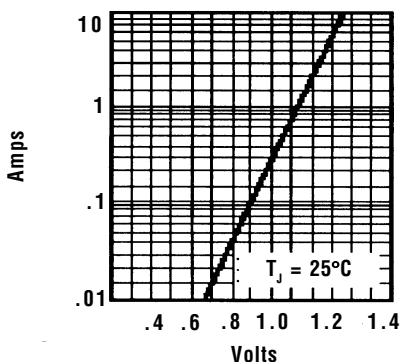
Forward Current Derating Curve



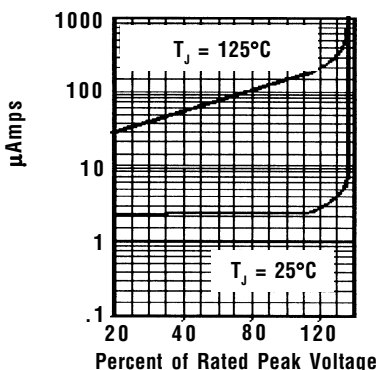
Non-Repetitive Peak Forward Surge Current



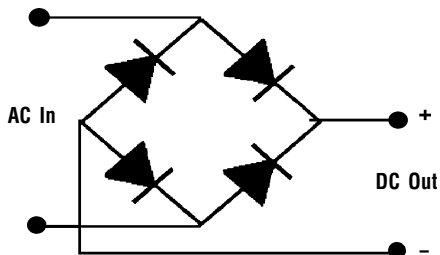
Typical Instantaneous Forward Characteristics



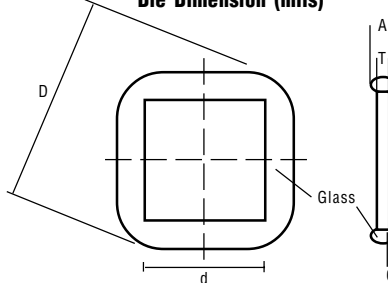
Typical Reverse Characteristics



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%.