

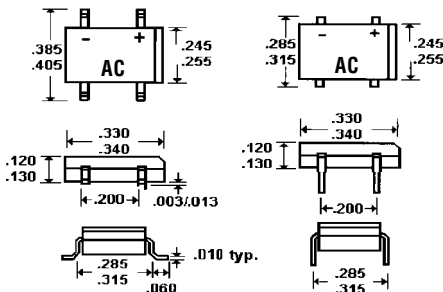
1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

DF005 . . . 10 Series

Description



Mechanical Dimensions



Add Suffix "S" for SMD.
Example: RDF-04M"S" = 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

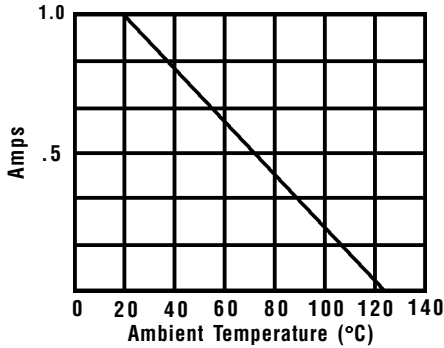
- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **50 AMP SURGE OVERLOAD RATING**
- **EXCEEDS ENVIRONMENTAL STANDARDS OF MIL STD. 19500**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.	<i>DF005 . . . 10 Series</i>								Units
Maximum Ratings	DF005	DF01	DF02	DF04	DF06	DF08	DF10		
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... $I_{F(av)}$ $T_A = 40^\circ C$				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				1.1					Volts
DC Reverse Current... I_R @ Rated DC Blocking Voltage				10					μA
				0.5					mA
Operating Temperature Range... T_J				-55 to 125					°C
Storage Temperature Range... T_{STRG}				-55 to 150					°C

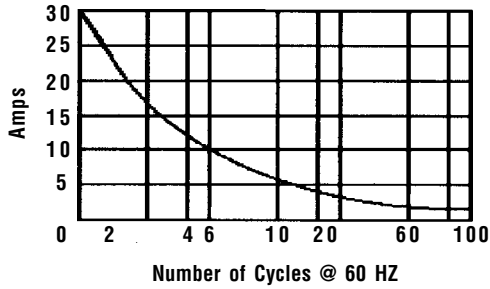
1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

DF005 . . . 10 Series

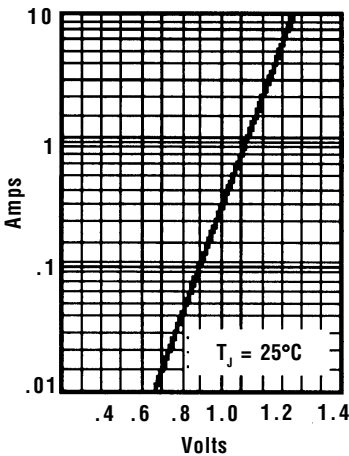
Forward Current Derating Curve



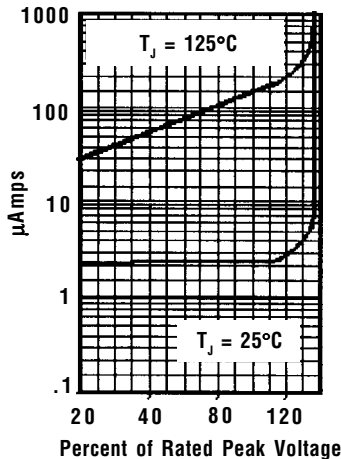
Non-Repetitive Peak Forward Surge Current



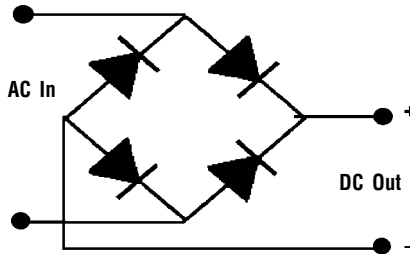
Typical Instantaneous Forward Characteristics



Typical Reverse Characteristics



Electrical Description



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%.