

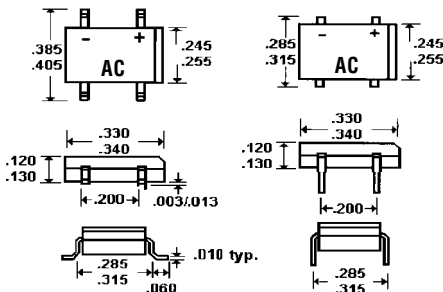
# 1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

**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

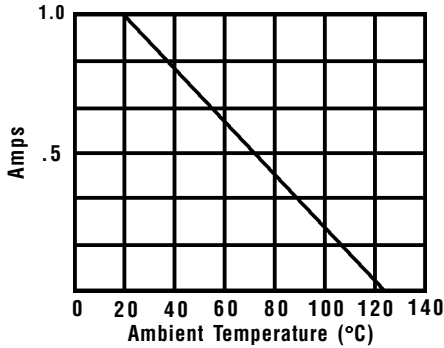
- COMPACT SIZE**
- EXCEEDS ENVIRONMENTAL STANDARDS OF MIL STD. 19500**
- LOW LEAKAGE CURRENT**
- MEETS UL SPECIFICATION 94V-0**
- 50 AMP SURGE OVERLOAD RATING**

Electrical Characteristics @ 25°C.	DF005 . . . 10 Series								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 <sup>2</sup> S	
Forward Voltage... $V_F$ Bridge Element @ 1.0 Amp				1.1				Volts	
DC Reverse Current... $I_R$ @ Rated DC Blocking Voltage				10				$\mu A$	
				0.5				mA	
Operating Temperature Range... $T_J$				-55 to 125				°C	
Storage Temperature Range... $T_{STRG}$				-55 to 150				°C	

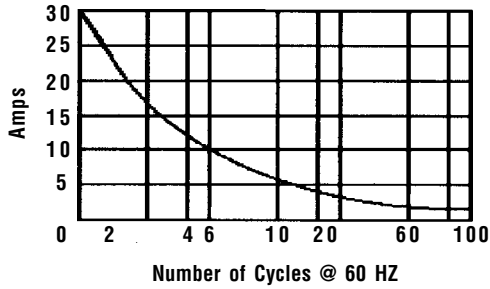
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**DF005 . . . 10 Series**

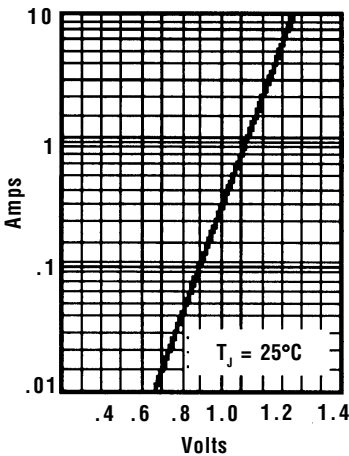
**Forward Current Derating Curve**



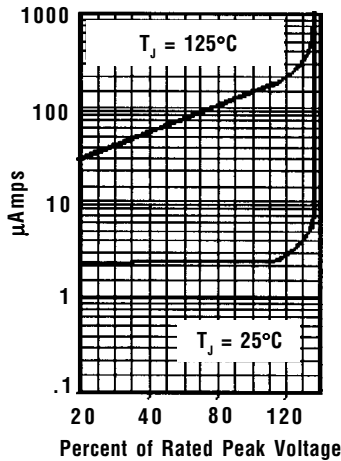
**Non-Repetitive Peak Forward Surge Current**



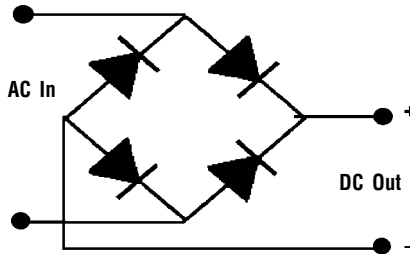
**Typical Instantaneous Forward Characteristics**



**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%.