

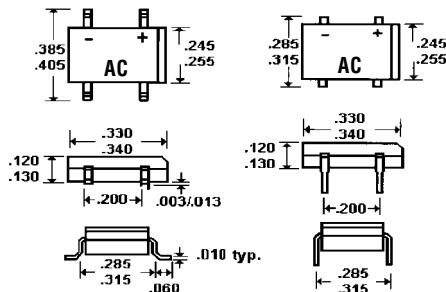
1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

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

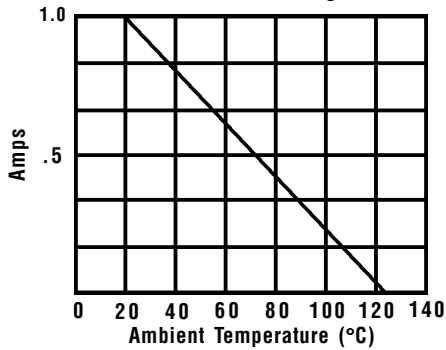
- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **50 AMP SURGE OVERLOAD RATING**
- **EXCEEDS ENVIRONMENTAL STANDARDS OF MIL STD. 19500**
- **MEETS UL SPECIFICATION 94V-0**

Electrical Characteristics @ 25°C.		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... $I_{F(av)}$ $T_A = 40^\circ\text{C}$		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		1.1							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 125							°C
Storage Temperature Range... T_{STRG}		-55 to 150							°C

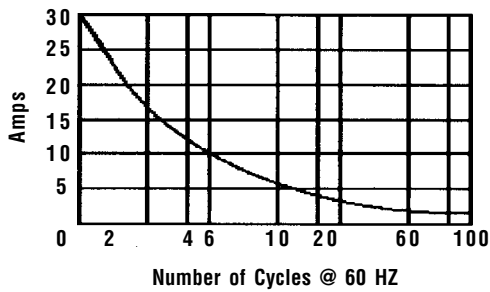
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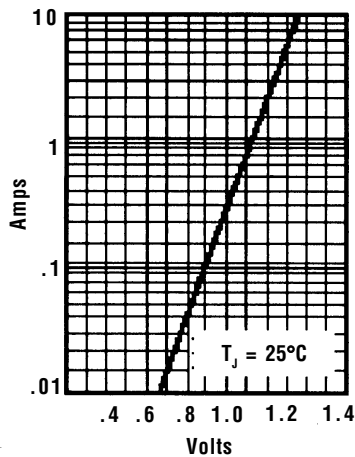
Forward Current Derating Curve



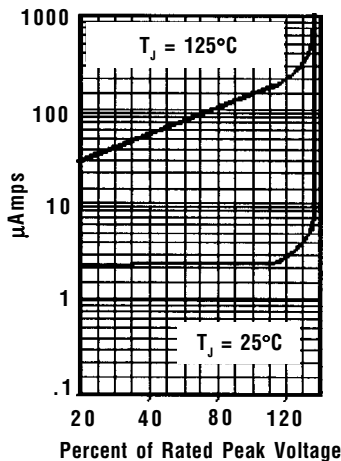
**Non-Repetitive
Peak Forward Surge Current**



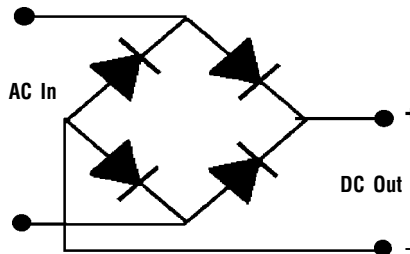
Typical Instantaneous Forward Characteristics



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%.