

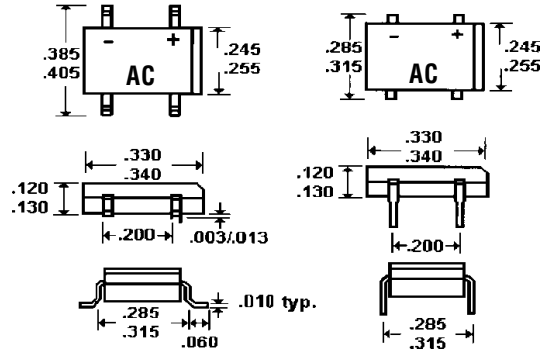
1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

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

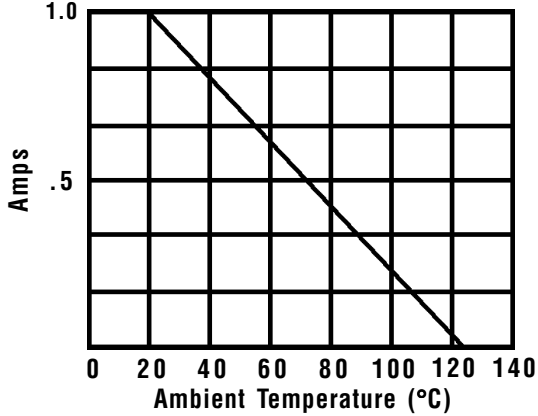
- **COMPACT SIZE**
- **LOW LEAKAGE CURRENT**
- **50 AMP SURGE OVERLOAD RATING**
- **EXCEEDS ENVIRONMENTAL STANDARDS OF MIL STD. 19500**
- **MEETS UL SPECIFICATION 94V-0**

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... $I_{F(av)}$ $T_A = 40^\circ C$	.....			1.0	.....			Amps
Non-Repetitive Peak Forward Surge Current... I_{FSM} 8.3 mS Single 1/2 Sine Wave Imposed on Rated Load	.....			50	.....			Amps
Point Rating for Fusing...(T < 8.3 mS)	.....			5.0	.....			A°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

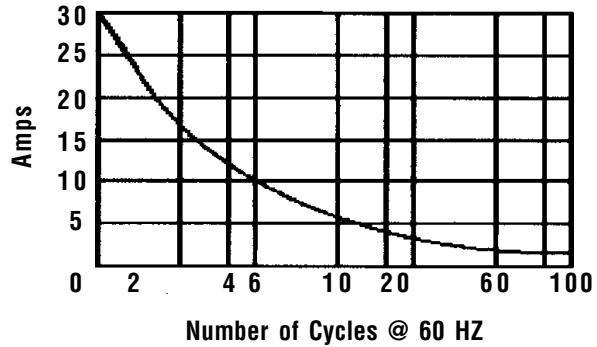
1.0 Amp Surface Mount SINGLE PHASE SILICON BRIDGE

DF005 . . . 10 Series

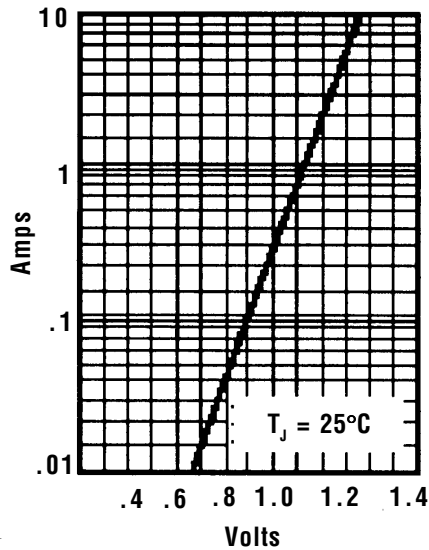
Forward Current Derating Curve



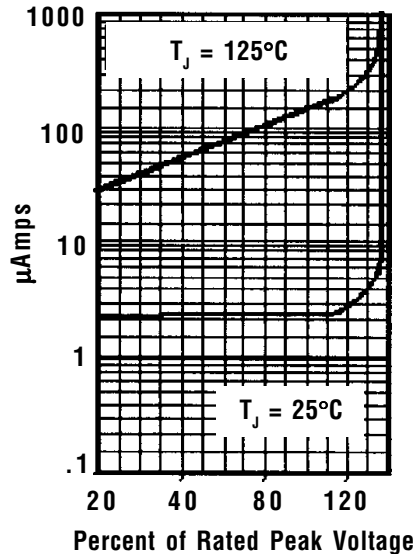
**Non-Repetitive
Peak Forward Surge Current**



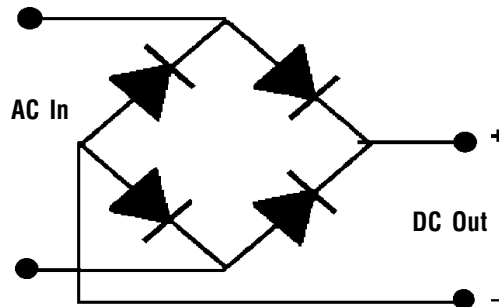
Typical Instantaneous Forward Characteristics



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%.