

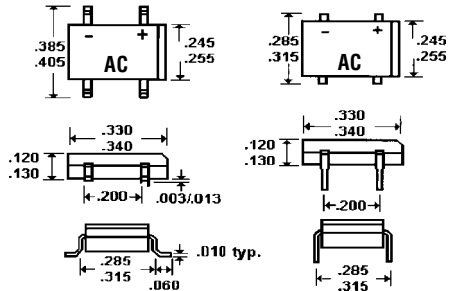
1.0 Amp FAST RECOVERY SINGLE PHASE SILICON BRIDGE

RDF005 . . . 08 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

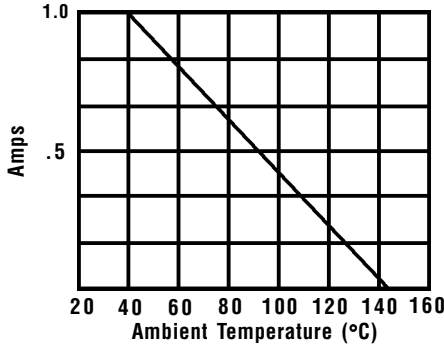
- COMPACT SIZE**
- UNDERWRITERS LABORATORIES RECOGNIZED**
- LOW LEAKAGE CURRENT**
- MEETS UL SPECIFICATION 94V-0**
- 50 AMP SURGE OVERLOAD RATING**

Electrical Characteristics @ 25°C.	<i>RDF005 . . . 08 Series</i>						Units	
Maximum Ratings	RDF005	RDF01	RDF02	RDF04	RDF06	RDF08		
Peak Repetitive Reverse Voltage... V_{RRM}	50	100	200	400	600	800	Volts	
RMS Reverse Voltage... $V_{R(rms)}$	35	70	140	280	420	560	Volts	
DC Blocking Voltage... V_{DC}	50	100	200	400	600	800	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				1.3			Volts	
DC Reverse Current... I_R @ Rated DC Blocking Voltage			$T_J = 25^\circ C$	10			μA	
			$T_J = 125^\circ C$	1.0			mA	
Reverse Recovery Time... t_{RR} (Note 1)	$T_C = 25^\circ C$	200	200	200	350	350	350	nS
Typical Thermal Resistance... $R_{\theta JC}$				40			°C/W	
Operating & Storage Temperature Range... T_J, T_{STRG}				-55 to 150			°C	

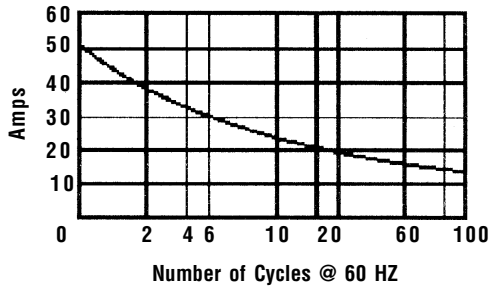
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RDF005 . . . 08 Series

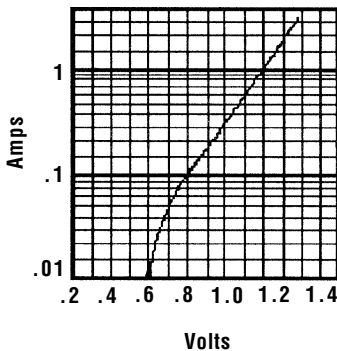
Forward Current Derating Curve



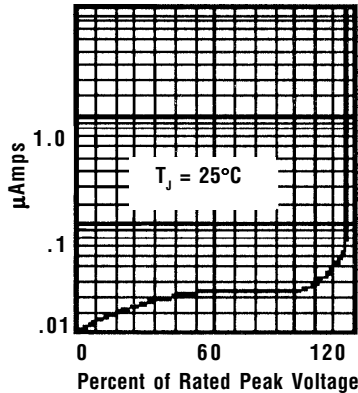
Non-Repetitive Peak Forward Surge Current



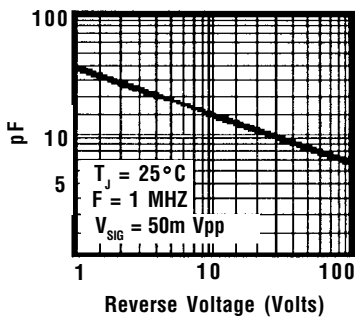
Typical Instantaneous Forward Characteristics



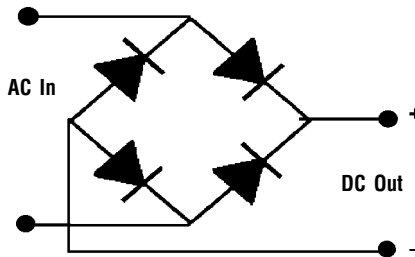
Typical Reverse Characteristics



Typical Junction Capacitance



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%.

NOTES: 1. Reverse Recovery Cond., $I_F = .5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = .25\text{A}$.