



# 1.0 Amp Glass Passivated Single Phase Silicon Bridge

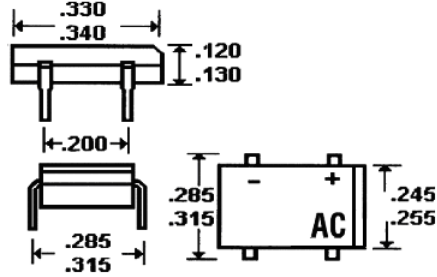
**DF005 . . . 10 Series**

## Description



DF

## Mechanical Dimensions



**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
- GLASS PASSIVATED JUNCTIONS

<b>DF005 . . . 10 Series</b>								<b>Units</b>
<b>Maximum Ratings</b>	<b>DF005</b>	<b>DF01</b>	<b>DF02</b>	<b>DF04</b>	<b>DF06</b>	<b>DF08</b>	<b>DF10</b>	
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	.....			
Point Rating for Fusing...(T < 8.3 ms)	.....			10	.....			A <sup>2</sup> s
Operating Temperature Range... $T_J$	.....			-55 to 150	.....			°C
Storage Temperature Range... $T_{STRG}$	.....			-55 to 150	.....			°C
<b>Electrical Characteristics</b>								
Maximum Forward Voltage... $V_F$ Per Bridge Element @ 1.0 Amp	.....			1.1	.....			Volts
Maximum DC Reverse Current Per Bridge Element... $I_R$ @ Rated DC Blocking Voltage	.....			5.0	.....			$\mu A$ mA
	.....			0.5	.....			

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FIG. 1 - FORWARD CURRENT DERATING CURVE

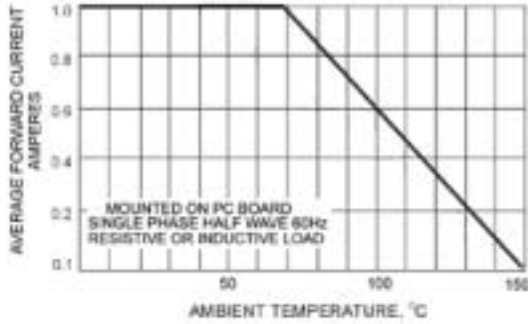


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

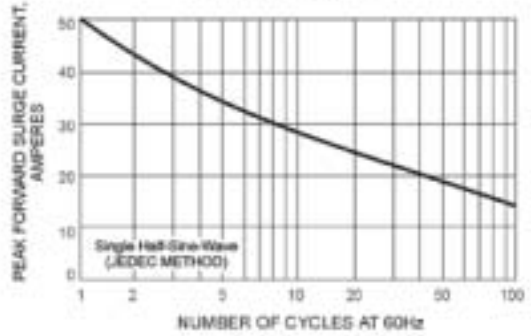


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

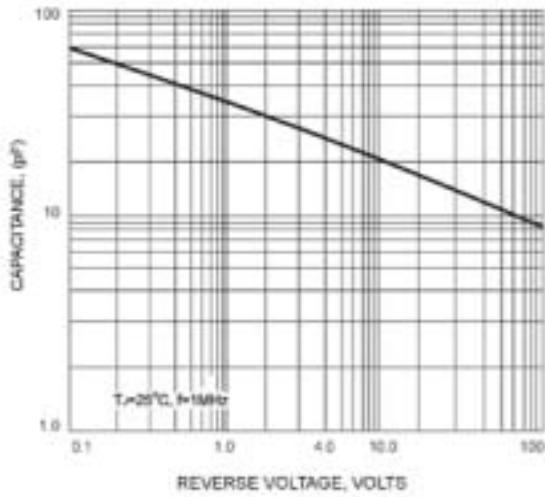


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

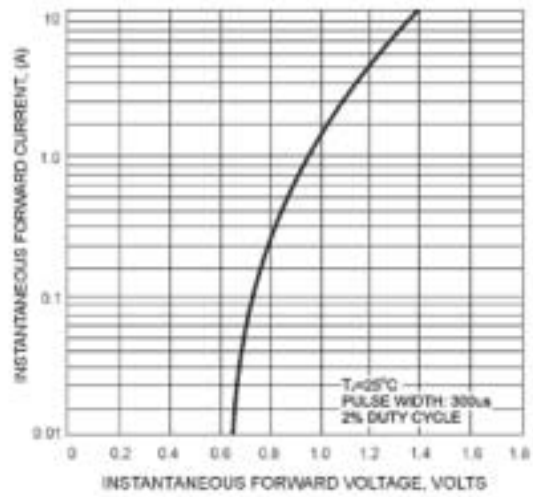


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

