



## DF005S THRU DF10S SINGLE PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

TECHNICAL  
SPECIFICATION

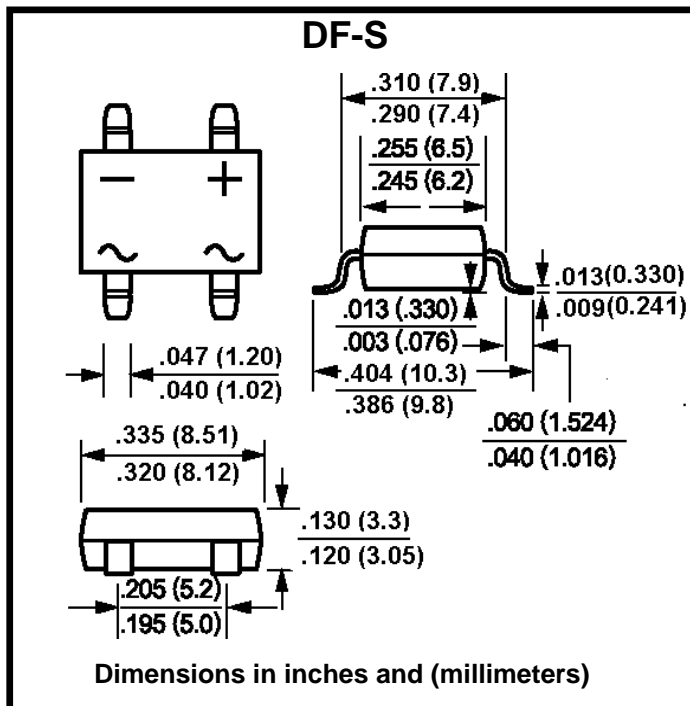
**VOLTAGE: 50 TO 1000V CURRENT: 1.0A**

### FEATURES

- For surface mount application
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating: 50 A peak
- High temperature soldering guaranteed: 250°C/10sec/ at terminals

### MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Polarity symbol marked on body
- Mounting position: Any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	DF	DF	DF	DF	DF	DF	DF	UNITS
		005S	01S	02S	04S	06S	08S	10S	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current ( $T_a=40^\circ\text{C}$ )	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	50							A
Maximum Instantaneous Forward Voltage (at forward current 1.0A)	$V_F$	1.1							V
Maximum DC Reverse Current (at rated DC blocking voltage)	$I_R$	$T_a=25^\circ\text{C}$ 10.0							$\mu\text{A}$
		$T_a=125^\circ\text{C}$ 500							$\mu\text{A}$
Typical Junction Capacitance (Note 1)	$C_J$	25							pF
Storage and Operating Junction Temperature	$T_{STG}, T_J$	-55 to +150							$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and applied voltage of  $4.0V_{dc}$