



DF005 THRU DF10

SINGLE PHASE GLASS

PASSIVATED BRIDGE RECTIFIER

TECHNICAL SPECIFICATION

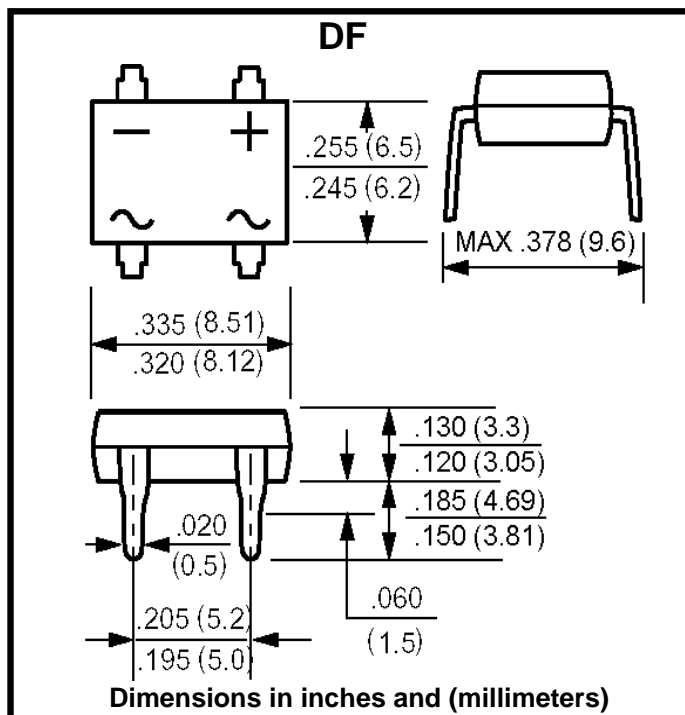
VOLTAGE: 50 TO 1000V CURRENT: 1.0A

FEATURES

- Ideal for printed circuit board
- 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 005	DF 01	DF 02	DF 04	DF 06	DF 08	DF 10	UNITS
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 ($T_a=25^\circ\text{C}$)	I_R	10.0							μA
(at rated DC blocking voltage) ($T_a=125^\circ\text{C}$)		500							μA
Typical Junction capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_\theta(\text{Ja})$	40							$^\circ\text{C/W}$
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 4.0 V_{dc}
2. Thermal Resistance from junction to Ambient mounted on P.C. Board with 13x13mm copper pads.