



# DF005 THRU DF10

## GLASS PASSIVATED CHIP SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

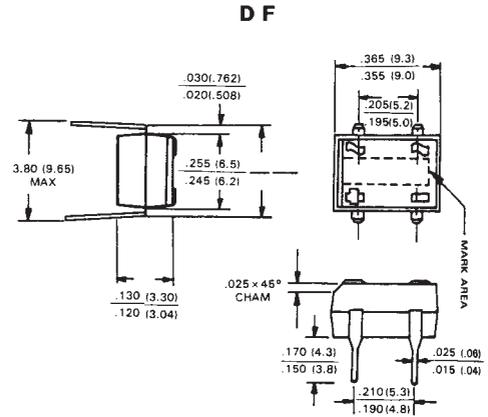
Forward Current - 1.0 Ampere

### Features

- Ideal for printed circuit board
- Glass passivated chip junction
- High temperature soldering guaranteed:  
260°C/10 seconds at 5 lbs tension

### Mechanical Data

- **Terminals:** Plated leads, solderable per MIL-STD-202, method 208
- **Case:** Molded with UL-94Class V-0 recognized flame retardant epoxy
- **Polarity:** Polarity symbol marked on body
- **Mounting Position:** Any



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Single-phase, half-wave, 60Hz, resistive or inductive load.

Ratings at 25°C, unless otherwise stated.

For capacitive load, Derate current by 20%.

Characteristic	Symbols	DF005	DF01	DF02	DF04	DF06	DF08	DF10	Units	
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts	
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts	
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts	
Maximum average forward rectified current at $T_A=40^\circ\text{C}$	$I_{(AV)}$	1.0							Amp	
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load	$I_{FSM}$					50.0				Amps
Maximum forward voltage at forward current per element 1.0A	$V_F$					1.1				Volts
$I^2t$ -rating for fusion ( $t < 8.3\text{mS}$ )	$I^2t$					10.0				A <sup>2</sup> S
Maximum DC reverse current at rated DC blocking voltage	$I_R$					10.0 500.0				$\mu\text{A}$
Typical junction capacitance (Note 1)	$C_J$					25.0				pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$					40.0				°C/W
Operating temperature range	$T_J$					-55 to +125				°C
Storage temperature range	$T_{STG}$					-55 to +150				°C

Notes:

- (1) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (2) Thermal resistance from junction to ambient on P.C. Board Mounted

# RATINGS AND CHARACTERISTIC CURVES

