# DF005 thru DF10 SERIES

### SINGLE-PHASE GLASS BRIDGE

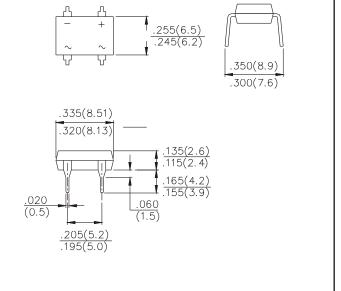




VOLTAGE RANGE 50 TO 1000 VOLTS CURRENT 2.0 Amperes

#### **FEATURES**

- Surge overload rating-50 amperes peak
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- · Polariy symbols molded on body
- Mounting Position: Any
- Glass passivated junctions
- · UL recognized file #E149311



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

		DF005	DF01	DF02	DF04	DF06	DF08	DF10	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	60	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current @ T <sub>A</sub> =40°C	V <sub>(AV)</sub>	1.0							А
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50							A
Maximum DC Forward Voltage at ADC	V <sub>F</sub>	1.1							٧
Maximum DC Reverse Current @ T <sub>A</sub> =25°C at rated DC Blocking Voltage @ T <sub>A</sub> =100°C	I <sub>R</sub>	10							μ <b>A</b>
		500							μ <b>A</b>
I <sup>2</sup> t Rating for fusing (t<8.3ms)	l <sup>2</sup> t	10.4						A <sup>2</sup> S	
Typical Junction Capacitance per element	СЈ	25						РF	
Typical Thermal Resistance	$R\theta JC$	40						°C/W	
Operating Temperature Range	T <sub>J</sub>	-55 to +125						°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150						°C	

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RATING AND CHARACTERISTICS CURVES DF005 THRU DF10

Fig.1 - MAXIMUM FORWARD SURGE CURRENT

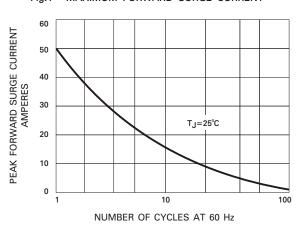


Fig.2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

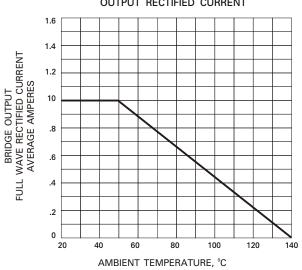


Fig.3 - TYPICAL FORWARD CHARACTERISTICS

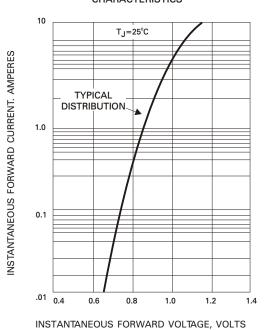


Fig.4 - TYPICAL REVERSE

