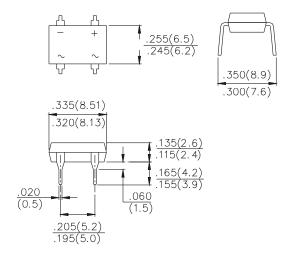
DF005 thru DF10

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES







- · Glass passivated JUNCTION
- · Surge overload rating to 50 amperes peak
- · Ldeal for printed circuit board applications
- · Low Forward Voltage drop
- Reliable low cost construction utilizing molded Plastic technique
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering guaranteed : 260°C/10seconds at 5lbs. (2.3kg) tension

MECHANICAL DATA

Case: Molded plastic body over passivated junction

Terminals: Plated lead, solderable per MIL-STD-202, Method 208

Polarity: Polarity symbols marked on body

Weight: 0.04 ounce, 1.0gram

MAXIMUM RATIXGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	DF005	DF01	DF02	DF04	DF06	DF08	DF10	UNITS
Maximum Repetitive Peak Reverse Voltage	Vrrm	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 @ T _A =40°C	V _(AV)	1.0						Amps	
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	IFSM	50							Amps
Maximum Instantaneous Forward Voltage Drop per Bridge Element at 1.0A	VF	1.1						Volts	
Maximum DC Reverse @Ta=25°C at rated DC Blocking Voltage @Ta=125°C	IR	10 500						μA	
Rating for fusing (t<8.3ms)	l ² t	10.4						A ² S	
Typical Junction capacitance (Note 1)	Cı	25						pF	
Typical Thermal resistance (Note 2)	R⊕JC	74						°C / W	
Operating and Storage Temperature Range	TJ Tstg	-55 to +150							°C

NOTES :

- 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts
- 2. Thermal Resestance From Junction to Ambient mounted on P.C.B with 0.5 x $0.5^{\prime\prime}$ (13x13mm) copper pads



DF005 thru DF10

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

RATING AND CHARACTERISTICS CURVES DF005 THRU DF10

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

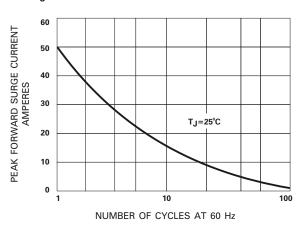


Fig. 2 - DERATING CURVE
OUTPUT RECTIFIED CURRENT

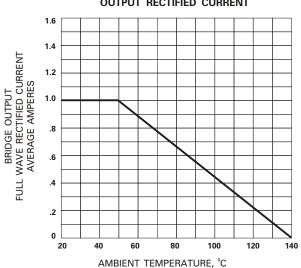


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

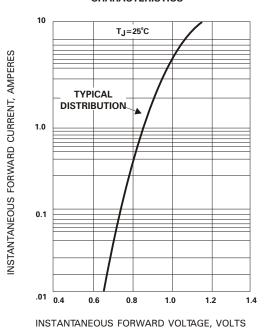


Fig. 4 - TYPICAL REVERSE

