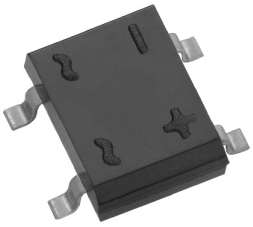
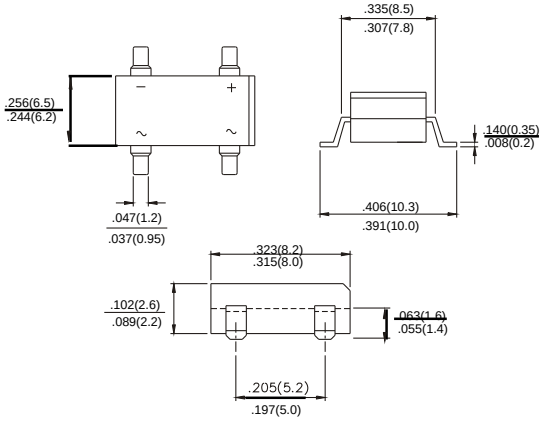
DF005SF thru DF10SF

SINGLE-PHASE GLASS PASSIVATED SMD BRIDGE RECTIFIERS

VOLTAGE - 50 TO 1000 VOLTS CURRENT - 1.0 AMPERES





Dimensions in inches and (millimeters)

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low Forward Voltage drop,hihg current capability
- Reliable low cost construction utilizing molded Plastic technique results in ine pensive product
- Lead tin Pb/Sn copper
- The plastic material has UL flammability Classification 94V-0

MECHANICAL DATA

Polarit:As marked on Body
Weight:0.02 ounces,0.38 grams
mounting position:Any

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	DF005SF	DF01SF	DF02SF	DF04SF	DF06SF	DF08SF	DF10SF	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 @ T_A=40°C	$V_{(AV)}$	1.0							Amps
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	50							Amps
Maximum Instantaneous Forward Voltage Drop per Bridge Element at 1.0A	V_F	1.1							Volts
Maximum DC Reverse @T_A=25°C at rated DC Blocking Voltage @T_A=125°C	I_R	10 500							μA
Rating for fusing (t<8.3ms)	I^2t	10.4							A^2S
Typical Junction capacitance (Note 1)	C_J	25							pF
Typical Thermal resistance (Note 2)	$R_{\theta JC}$	40							°C / W
Operating and Storage Temperature Range	T_J T_{STG}	-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″ (13x13mm) copper pads

SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

RATING AND CHARACTERISTICS CURVES DF005SF THRU DF10SF

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT

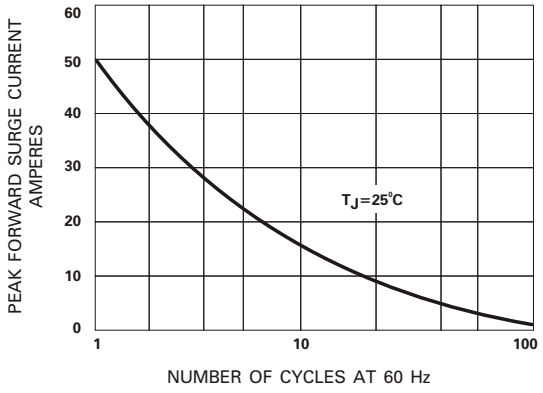


Fig. 2 - DERATING CURVE OUTPUT RECTIFIED CURRENT

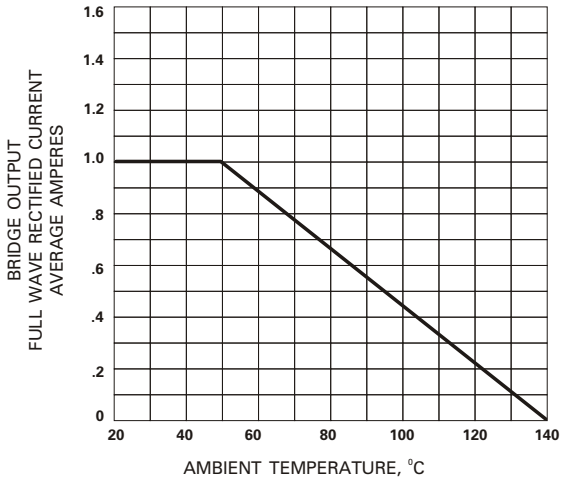


Fig. 3 - TYPICAL FORWARD CHARACTERISTICS

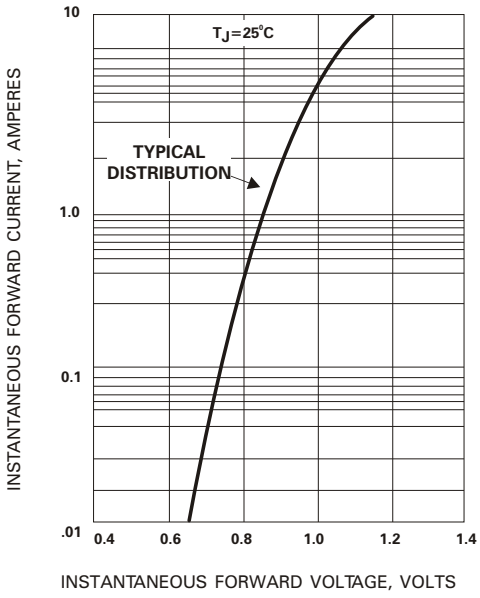


Fig. 4 - TYPICAL REVERSE CHARACTERISTICS