



DF005G THRU DF10G DF005S THRU DF10S

SINGLE PHASE 1.0 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



FEATURES

- * Ideal for printed circuit board
- * Reliable low cost construction utilizing molded plastic technique
- * High surge current capability
- * Small size, simple installation
- * Leads solderable per MIL-STD-202, method 208

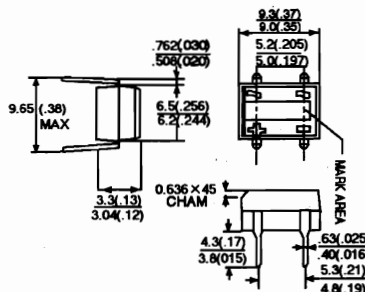
VOLTAGE RANGE

50 to 1000 Volts

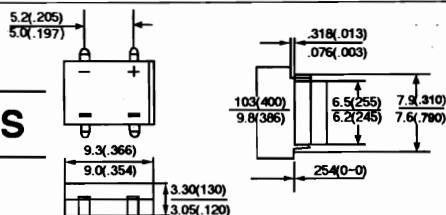
CURRENT

1.0 Ampere

DF



DF-S



Dimensions in millimeters and (inches)

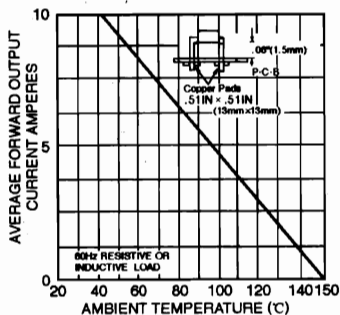
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

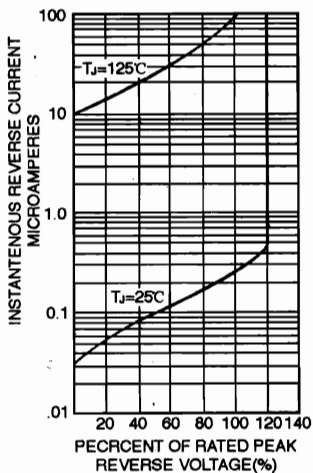
TYPE NUMBER	SYMBOLS	DF005G DF005S	DF01G DF01S	DF02G DF02S	DF04G DF04S	DF06G DF06S	DF08G DF08S	DF10G DF10S	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V_{DC}	50	100	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, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Maximum Forward Voltage Drop per element @ 1.0A	V_F	1.10							V
Maximum Reverse Current at Rated @ $T_A = 25^\circ\text{C}$ D.C. Blocking Voltage per element @ $T_A = 125^\circ\text{C}$	I_R	10 500							μA μA
Operating Temperature Range	T_J	- 55 to + 125							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 55 to + 150							$^\circ\text{C}$

RATINGS AND CHARACTERISTIC CURVES (DF005G THRU DF10G) DF005S THRU DF10S

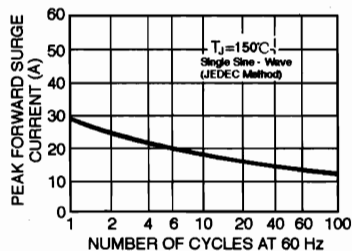
**FIG.1 - DERATING CURVE FOR
 OUTPUT CURRENT**



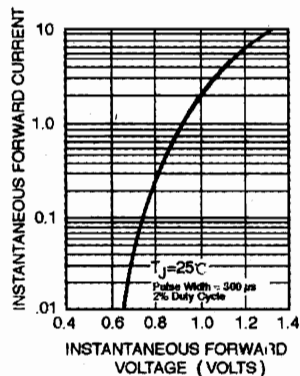
**FIG.3 - TYPICAL REVERSE
 CHARACTERISTICS
 PER BRIDGE ELEMENT**



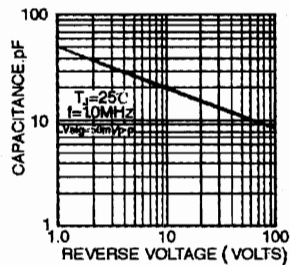
**FIG.2 - MAXIMUM NON - REPETITIVE PEAK
 FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD
 CHARACTERISTICS
 PER BRIDGE ELEMENT**



**FIG.5 - TYPICAL JUNCTION CAPACITANCE
 PER BRIDGE ELEMENT**



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Datasheets for electronics components.