



# Frontier Electronics Corp.

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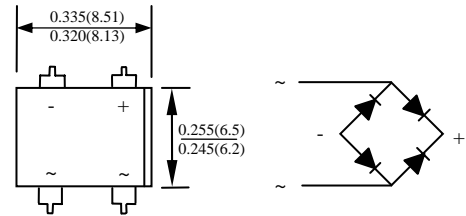
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## 1A BRIDGE RECTIFIERS

### DF005 THRU DF10

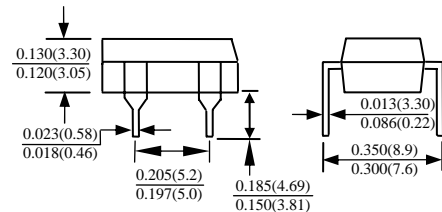
#### FEATURES

- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY RECOGNITION 94V-0
- GLASS PASSIVATED CHIP
- IDEAL FOR PRINTED CIRCUIT BOARD
- HIGH TEMPERATURE SOLDERING GUARANTEED: 260°C /10S AT 5 LBS., (2.3KG) TENSION



#### MECHANICAL DATA

- CASE: MOLDED PLASTIC, DF, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEAD SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: POLARITY SYMBOLS MARKED ON BODY
- MOUNTING POSITION: ANY
- WEIGHT: 1.0 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS 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%

RATINGS	SYMBOL	DF-005	DF-01	DF-02	DF-04	DF-06	DF-08	DF-10	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	$V_{RMS}$	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_A=40^\circ\text{C}$	$I_O$	1.0							A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	50							A
TYPICAL JUNCTION CAPACITANCE PER LEG@ 4V, 1MHz	$C_J$	25							PF
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 55 TO + 150							°C
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 55 TO + 150							°C

#### ELECTRICAL CHARACTERISTICS ( $A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	DF-005	DF-01	DF-02	DF-04	DF-06	DF-08	DF-10	UNITS	
MAXIMUM FORWARD VOLTAGE DROP PER BRIDGE ELEMENT AT $I_O$ DC	$V_F$	1.1					1.2			V
MAXIMUM REVERSE CURRENT AT RATED $T_A=25^\circ\text{C}$	$I_R$	10.0								$\mu\text{A}$
DC BLOCKING VOLTAGE PER ELEMENT $T_A=125^\circ\text{C}$		0.5								mA

# RATING AND CHARACTERISTICS CURVES DF005 THRU DF10

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

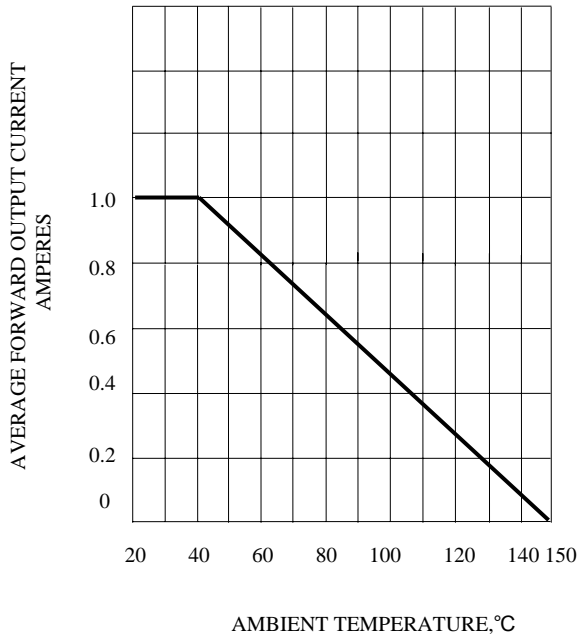


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

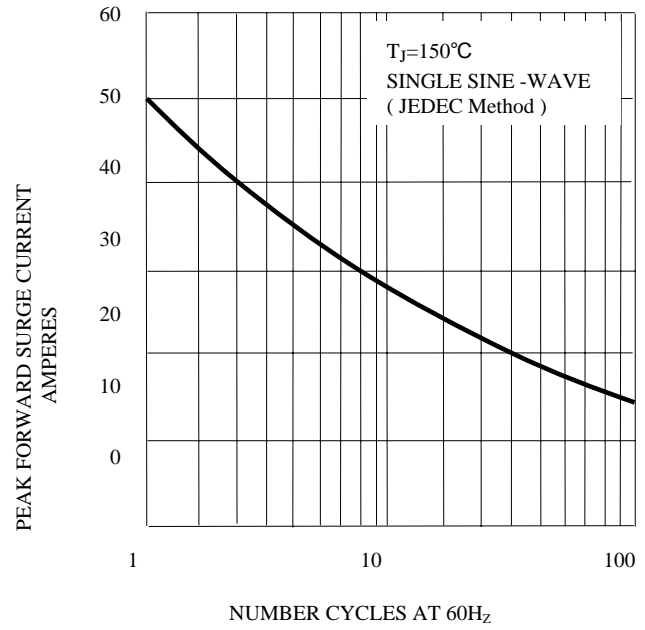


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

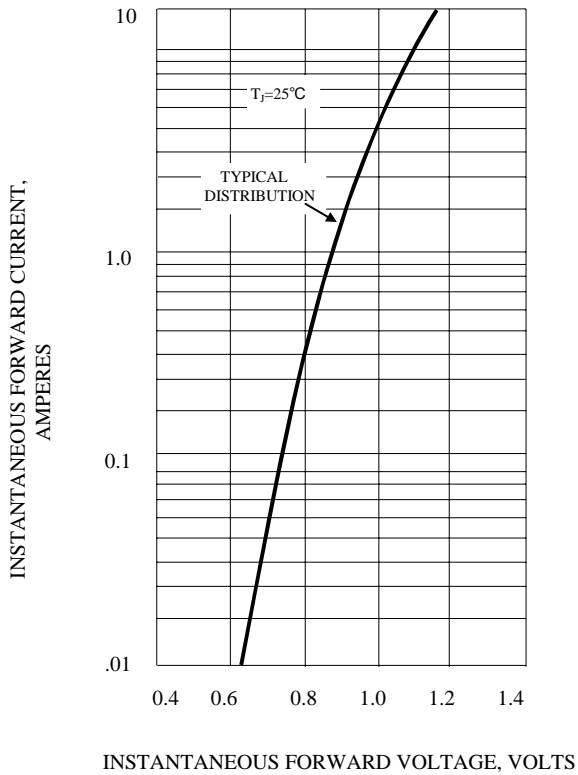


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

