



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: frontiersales@frontierusa.com

Web: <http://www.frontierusa.com>

1A SURFACE MOUNT BRIDGE RECTIFIERS

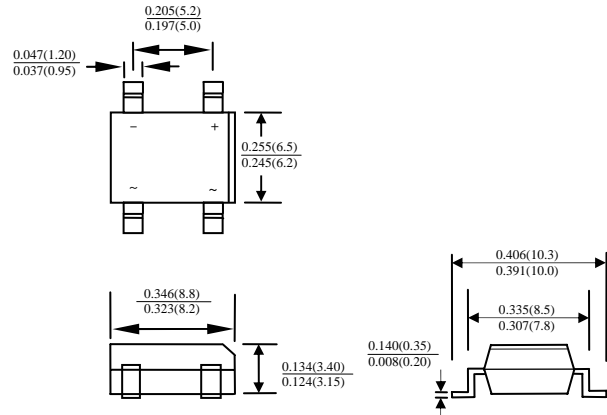
DF005S-LFR THRU DF10S-LFR

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
- ROHS

MECHANICAL DATA

- CASE: MOLDED PLASTIC, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEAD SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: POLARITY SYMBOLS MARKED ON BODY
- MOUNTING POSITION: ANY
- WEIGHT: 0.38 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	DF005S -LFR	DF01S -LFR	DF02S -LFR	DF04S -LFR	DF06S -LFR	DF08S -LFR	DF10S -LFR	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 OUTPUT RECTIFIED CURRENT AT T _A =40°C	I _O	1.0							A
PEAK FORWARD SURGE CURRENT SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I _{FSM}	50							A
TYPICAL JUNCTION CAPACITANCE PER ELEMENT (NOTE 1)	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°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	DF005S -LFR	DF01S -LFR	DF02S -LFR	DF04S -LFR	DF06S -LFR	DF08S -LFR	DF10S -LFR	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT I _O DC	V _F	1.1							V
MAXIMUM REVERSE CURRENT T _A =25°C	I _R	10							μA
AT RATED DC BLOCKING VOLTAGE PER ELEMENT T _A =125°C		0.5							

NOTE: 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

RATING AND CHARACTERISTICS CURVES DF005S-LFR THRU DF10S-LFR

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

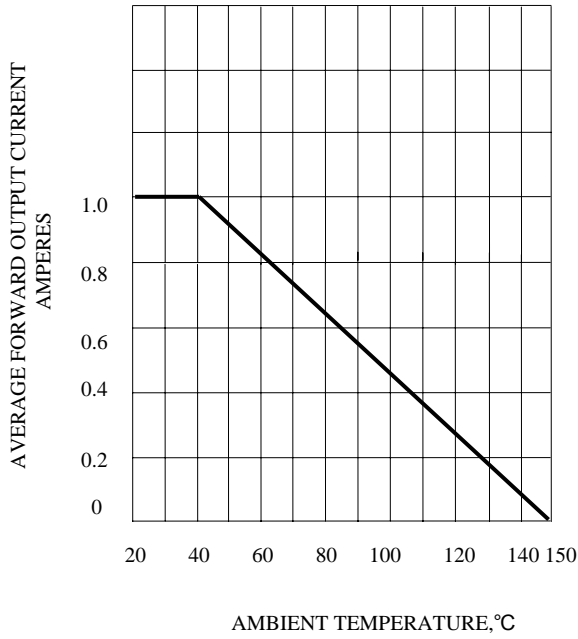


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

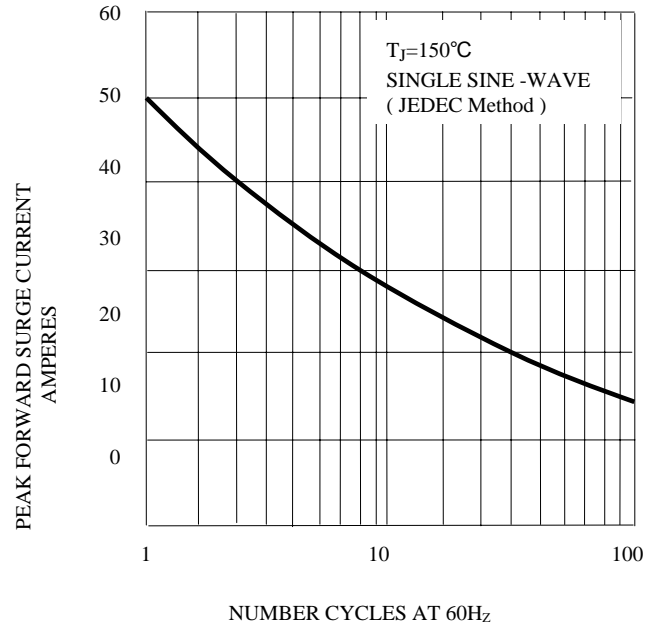


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

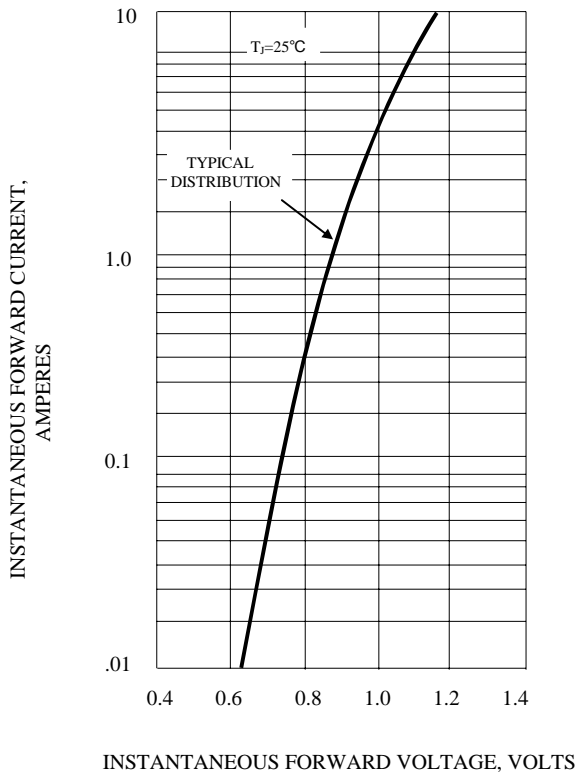


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

