



# Frontier Electronics Corp.

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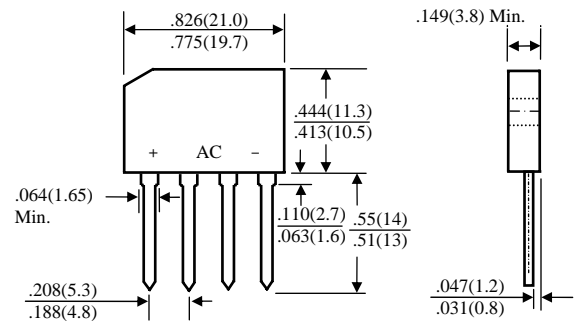
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## 4A GLASS PASSIVATED BRIDGE RECTIFIER

### BL4-005G THRU BL4-10G

#### FEATURES

- GLASS PASSIVATED CHIP JUNCTION
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS  
LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- TYPICAL IR LESS THAN 1 $\mu$ A
- IDEAL FOR PRINTED CIRCUIT BOARD
- HIGH TEMPERATURE SOLDERING GUARANTEED: 260°C/10S  
0.375" (9.5mm) LEAD LENGTH / 5LBS., (2.3KG) TENSION
- SURGE OVERLOAD RATING: 200A PEAK



#### MECHANICAL DATA

- CASE: VOID FREE PLASTIC PACKAGE  
DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS AXIAL LEADS, SOLDERABLE PER MIL-STD-202  
METHOD 208
- MOUNTING POSITION: ANY
- WEIGHT: 3.6 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	BL4-005G	BL4-01G	BL4-02G	BL4-04G	BL4-06G	BL4-08G	BL4-10G	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 OUTPUT CURRENT AT 40°C TA	$I_O$	4.0							A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	150							A
RATING FOR FUSING $t < 8.3ms$	$I^2t$	60							A <sup>2</sup> SEC
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 55 TO + 150							°C
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 55 TO + 125							°C

#### ELECTRICAL CHARACTERISTICS (A<sub>T</sub> T<sub>A</sub> =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	BL4-005G	BL4-01G	BL4-02G	BL4-04G	BL4-06G	BL4-08G	BL4-10G	UNITS
MAXIMUM FORWARD VOLTAGE DROP PER BRIDGE ELEMENT AT 2.0A PEAK	$V_F$	1.0							V
MAXIMUM REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE PER ELEMENT	$I_R$	5							$\mu$ A

# RATINGS AND CHARACTERISTIC CURVES BL4-005 THRU BL4-10

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

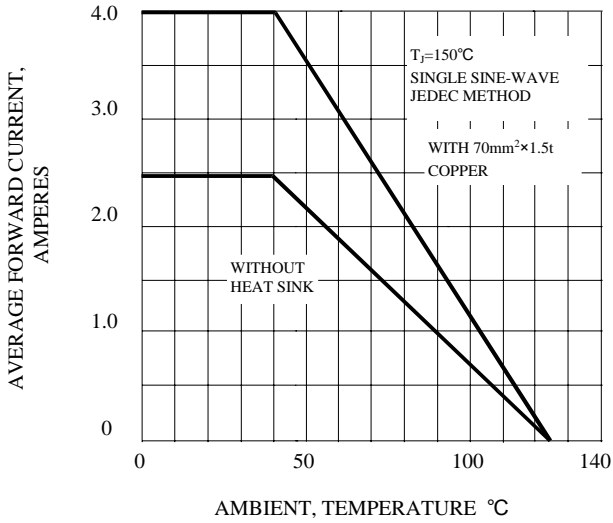


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

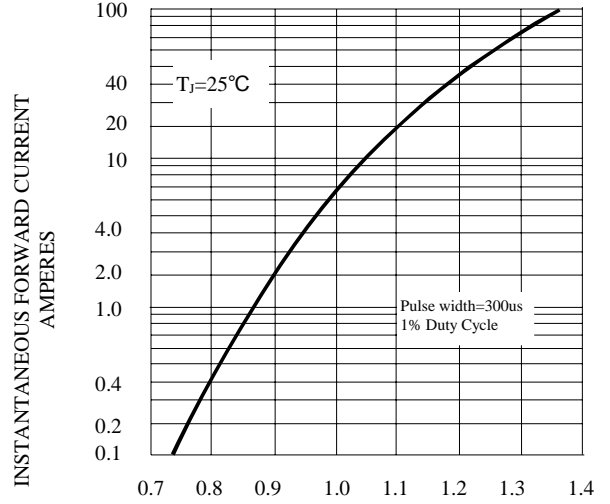


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

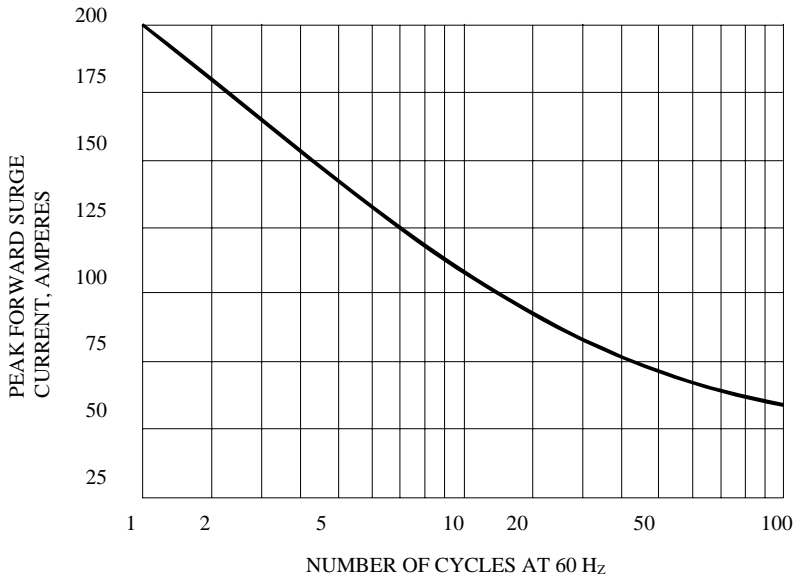


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

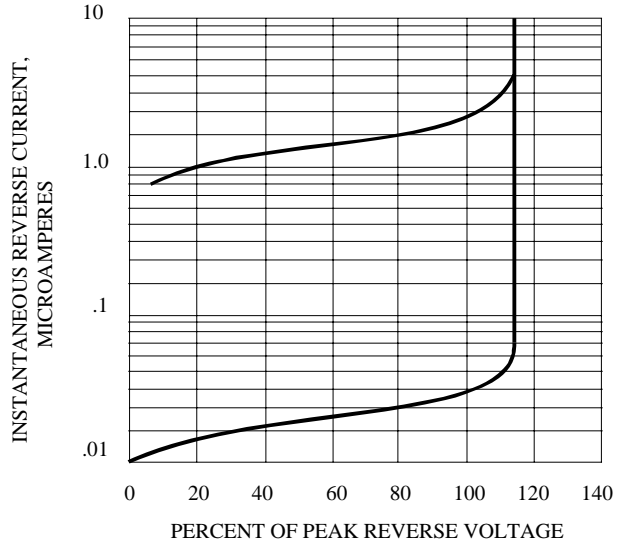


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

