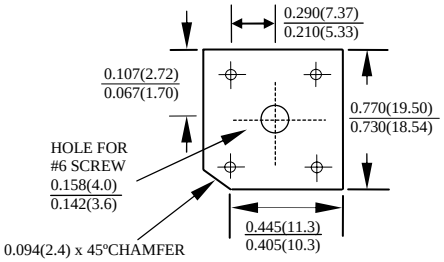
Frontier Electronics Corp.

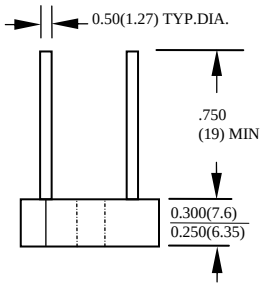
667 E. COCHRAN STREET, SIMI VALLEY, CA 93065
TEL: (805) 522-9998 FAX: (805) 522-9989
E-mail: frontiersales@frontierusa.com
Web: http://www.frontierusa.com

8A BRIDGE RECTIFIER
BP8-005 THRU BP8-10



FEATURES

- PLASTIC MATERIAL USED CARRIERS UNDERWRITERS LABORATORY FLAMMABILITY RECOGNITION 94V-0
- TYPICAL IR LESS THAN 1μA
- HIGH SURGE CURRENT CAPABILITY
- LOW FORWARD VOLTAGE DROP
- IDEAL FOR PRINTED CIRCUIT BOARD



MECHANICAL DATA

- CASE: VOID-FREE PLASTIC PACKAGE
  DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING POSITION: ANY
- WEIGHT: 6.9 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	BP8-005	BP8-01	BP8-02	BP8-04	BP8-06	BP8-08	BP8-10	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 OUTPUT CURRENT AT @ TA=40ºC(NOTE1) @ TA=40ºC(NOTE2)	I_O	8.0 3.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	150							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							ºC
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125							ºC

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	BP8-005	BP8-01	BP8-02	BP8-04	BP8-06	BP8-08	BP8-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP AT 4.0A	V_F	1.1							V
MAXIMUM REVERSE CURRENT AT RAT-ED DC BLOCKING VOLTAGE PER ELEMENT TA=25ºC	I_R	10							μA

NOTE: 1. UNIT MOUNTED ON 6" x 6" x 0.06" THICK (150mm^2 x 1.5mm)COPPER PLATE.
2. UNIT MOUNTED ON P.C. BOARD AT .375"(9.5mm)LEAD LENGTHS WITHOUT HEAT SINK

RATINGS AND CHARACTERISTIC CURVES BP8-005 THRU BP8-10

FIG. 1 -BP8 SERIES DERATING CURVE
FOR OUTPUT RECTIFIED CURRENT

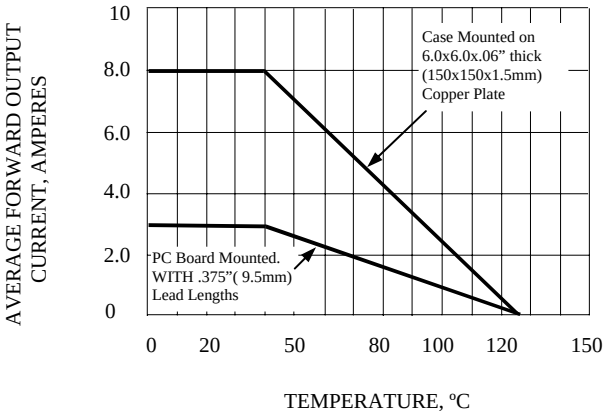


FIG. 2 - TYPICAL JUNCTION
CAPACITANCE PER ELEMENT

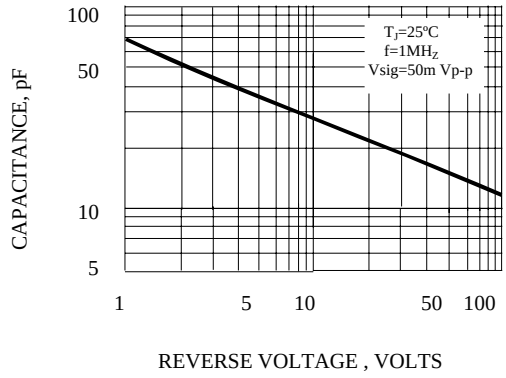


FIG. 3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

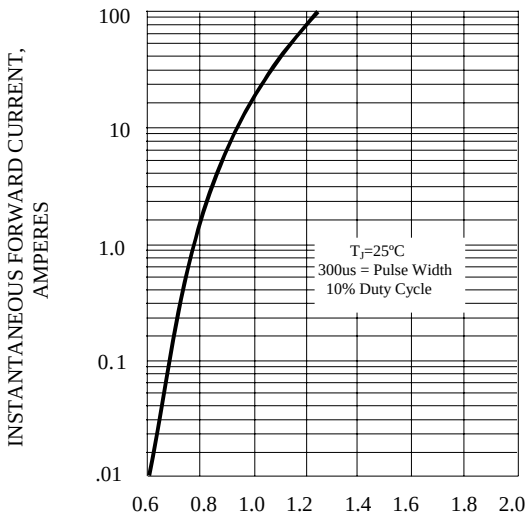


FIG. 4 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

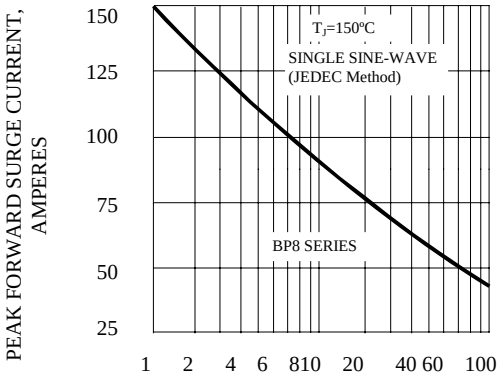


FIG. 5 - TYPICAL REVERSE
CHARACTERISTICS

