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8A BRIDGE RECTIFIER

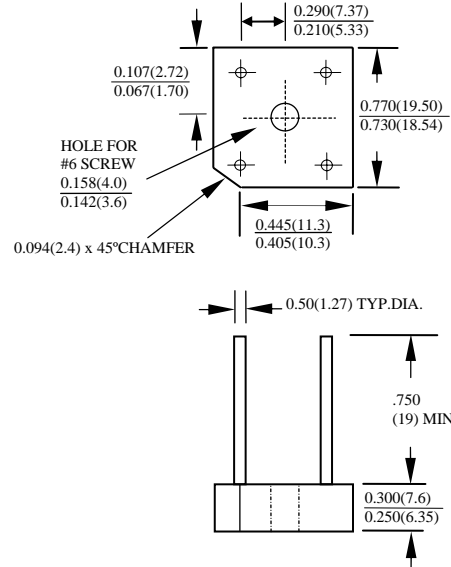
BP8-005 THRU BP8-10

FEATURES

- PLASTIC MATERIAL USED CARRIERS UNDERWRITERS LABORATORY FLAMMABILITY RECOGNITION 94V-0
- TYPICAL IR LESS THAN 1 μ A
- 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 @ $T_A=40^\circ\text{C}$ (NOTE1)	I_O	8.0						A	
@ $T_A=40^\circ\text{C}$ (NOTE2)		3.0							
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	150						A	
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150						°C	
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125						°C	

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ 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 $T_A=25^\circ\text{C}$	I_R	10				μA			

- NOTE: 1. UNIT MOUNTED ON 6" x 6" x 0.06" THICK (150mm² 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

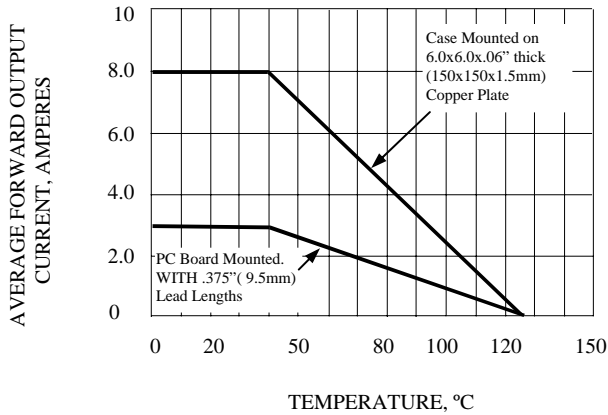


FIG. 2 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

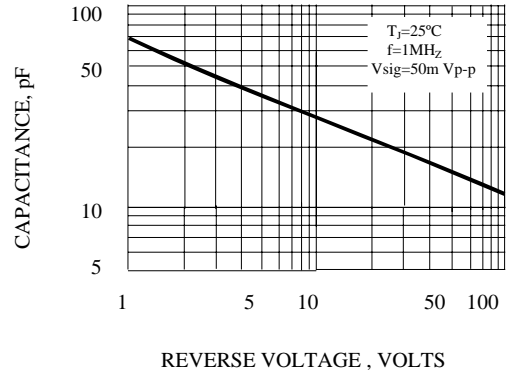


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

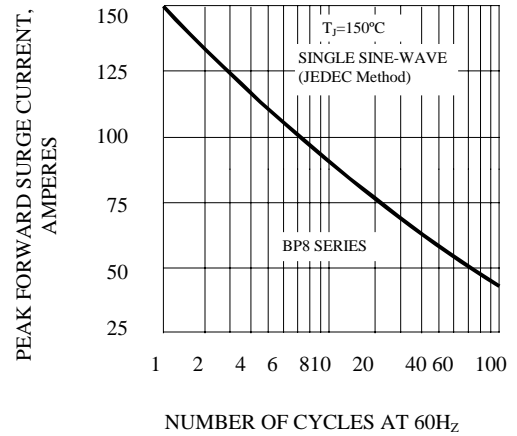


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

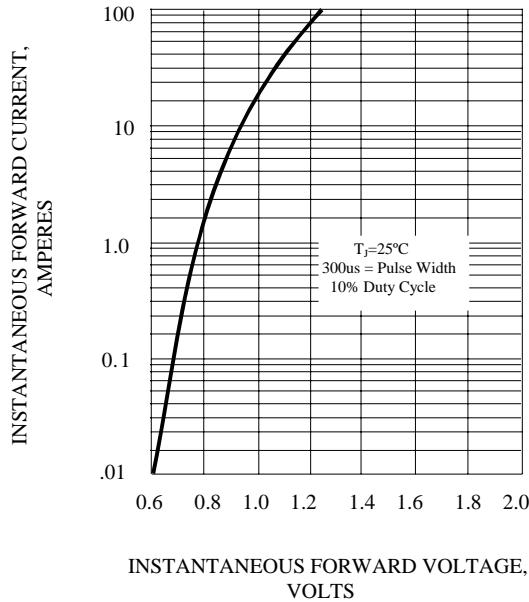


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

