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6A SINGLE PHASE SILICON BRIDGE RECTIFIER

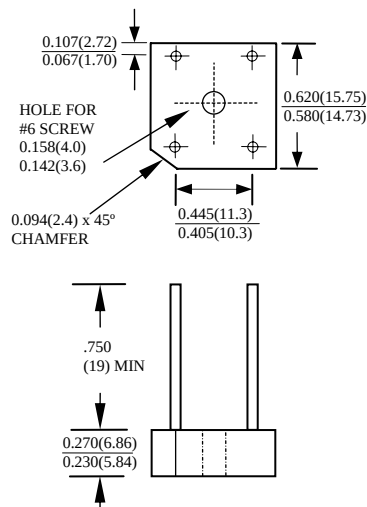
BP6-005 THRU BP6-10

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: 5.5 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	BP6-005	BP6-01	BP6-02	BP6-04	BP6-06	BP6-08	BP6-10	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 @ $T_A=40^{\circ}C$ (NOTE 1) @ $T_A=40^{\circ}C$ (NOTE 2)	I_O	6.0 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							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125							°C

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

CHARACTERISTICS	SYMBOL	BP6-005	BP6-01	BP6-02	BP6-04	BP6-06	BP6-08	BP6-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP AT 3.0A	V_F	1.1							V
MAXIMUM REVERSE CURRENT AT RAT-ED DC BLOCKING VOLTAGE PER ELEMENT $T_A=25^{\circ}C$	I_R	10							μA

NOTE: 1. UNIT MOUNTED ON 4" x 4" x 0.06" THICK (100mm² 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 BP6-005 THRU BP6-10

FIG. 1 -BP6 SERIES DERATING CURVE
OUTPUT RECTIFIED CURRENT

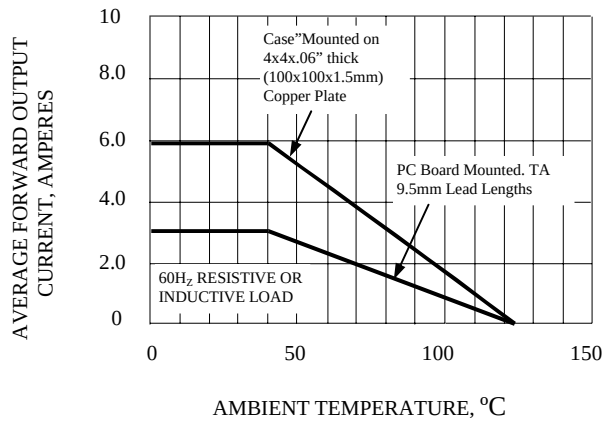


FIG. 2 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

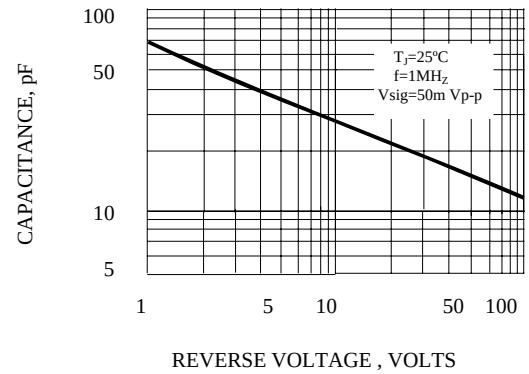


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

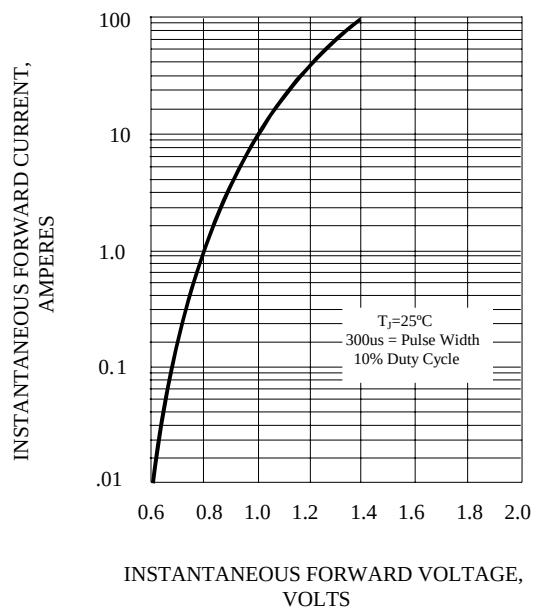


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

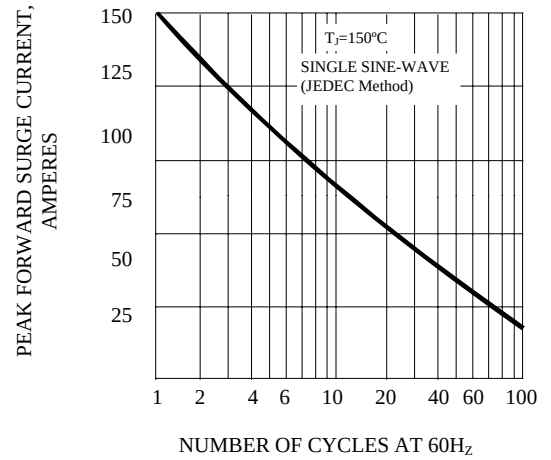


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

