



**BP6-005
THRU
BP6-10**

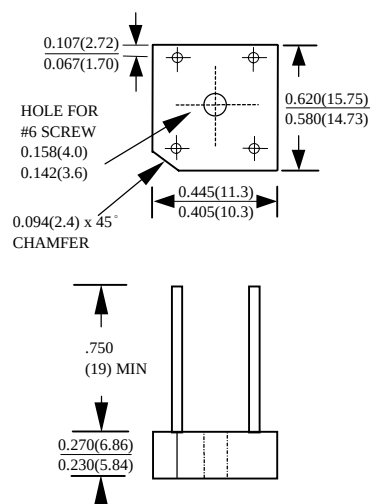
6A SINGLE PHASE SILICON BRIDGE RECTIFIER

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
- TERMINALS : LEADS, SOLDERABLE PER MIL-STD-202,
METHOD 208
- MOUNTING POSITION : ANY
- WEIGHT : 5.5 GRAMS



DIMENSIONS IN INCHES AND (MILLIMETERS)

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 @ TA=40°C (NOTE 1) @ TA=40°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 ($A_T T_A = 25^\circ\text{C}$ 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 TA=25°C	I_R	10							μ A

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 HEATSINK

RATINGS AND CHARACTERISTIC CURVES BP6-005 THRU BP6-10

FIG. 1 -BP6 SERIES DERATING CURVE
OUTPUT RECTIFIED CURRENT

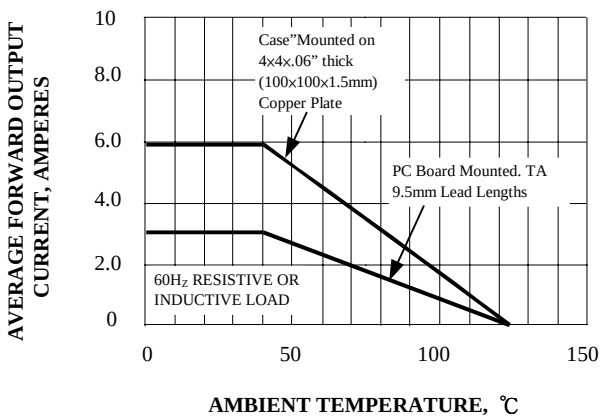


FIG. 2 - TYPICAL JUNCTION
CAPACITANCE PER ELEMENT

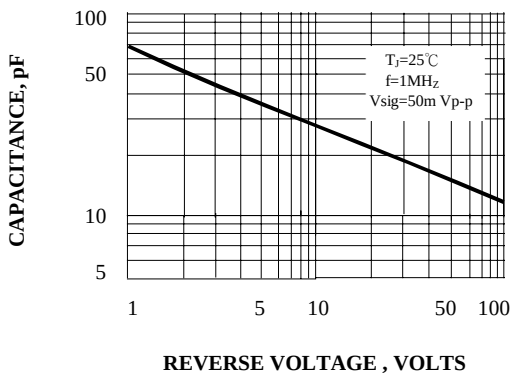


FIG. 3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

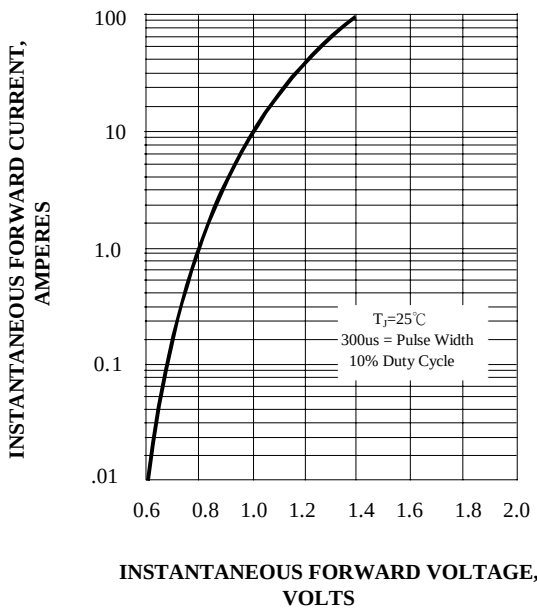


FIG. 4 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

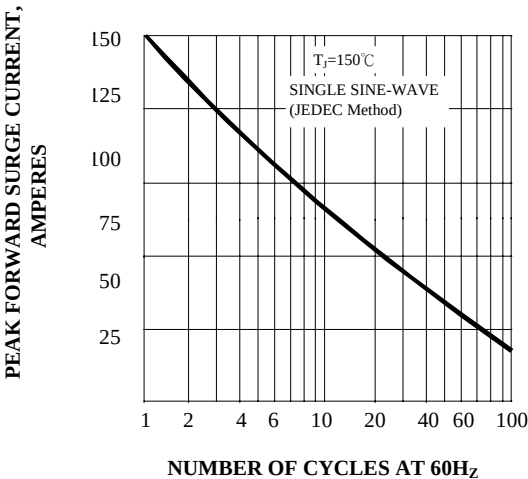


FIG. 5 - TYPICAL REVERSE
CHARACTERISTICS

