



**BP3-005
THRU
BP3-10**

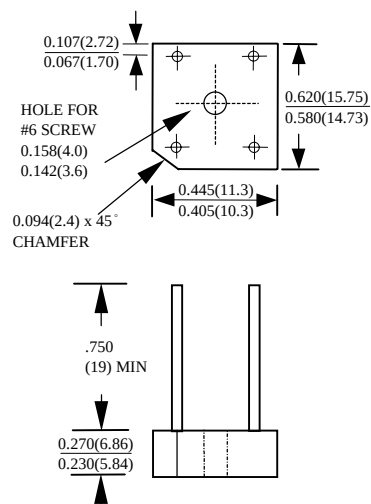
3A BRIDGE RECTIFIER

FEATURES

- PLASTIC MATERIAL USED CARRIERS UNDERWRITERS
LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- TYPICAL IR LESS THAN 1μA
- EXCEEDS ENVIRONMENTAL STANDARDS OF MIL-STD-19500
- HIGH TEMPERATURE SOLDERING GUARANTEED :
260°C / 10S .375" (9.5mm) LEAD LENGTH / 5 LBS.,
(2.3KG) TENSION

MECHANICAL DATA

- CASE : VOID-FREE PLASTIC PACKAGE
- TERMINALS : AXIAL 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	BP3-005	BP3-01	BP3-02	BP3-04	BP3-06	BP3-08	BP3-10	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 $T_A=40^\circ\text{C}$ (NOTE 1) RECTIFIED OUTPUT CURRENT $T_A=40^\circ\text{C}$ (NOTE 2)	I_O	3.0 2.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50							A
TYPICAL JUNCTION CAPACITANCE PER ELEMENT (NOTE 3)	C_J	20							PF
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	BP3-005	BP3-01	BP3-02	BP3-04	BP3-06	BP3-08	BP3-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT 1.5A	V_F	1.1							V
MAXIMUM REVERSE LEAKAGE AT RATED $T_A=25^\circ\text{C}$ DC BLOCKING VOLTAGE PER ELEMENT $T_A=100^\circ\text{C}$	I_R	10.0 50.0							μA

NOTE:

1. UNIT MOUNTED ON 50mm² x 1.5t COPPER PLAT
2. UNIT MOUNTED ON P.C. BOARD WITH 9.5mm LEAD LENGTHS
3. MEASURED AT 1.0MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

RATINGS AND CHARACTERISTIC CURVES BP3-005 THRU BP3-10

FIG. 1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

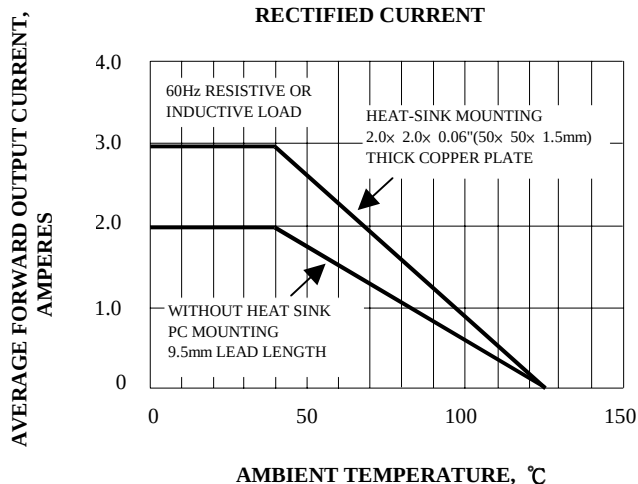


FIG. 2 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

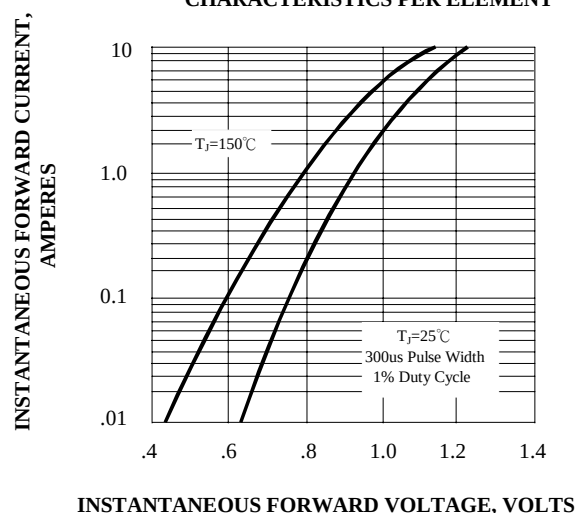


FIG. 3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

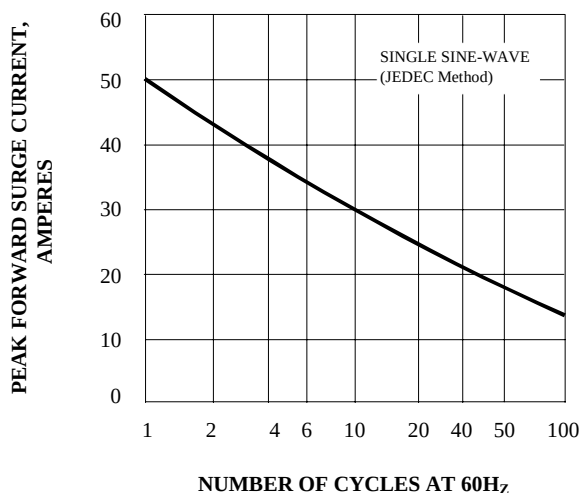


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

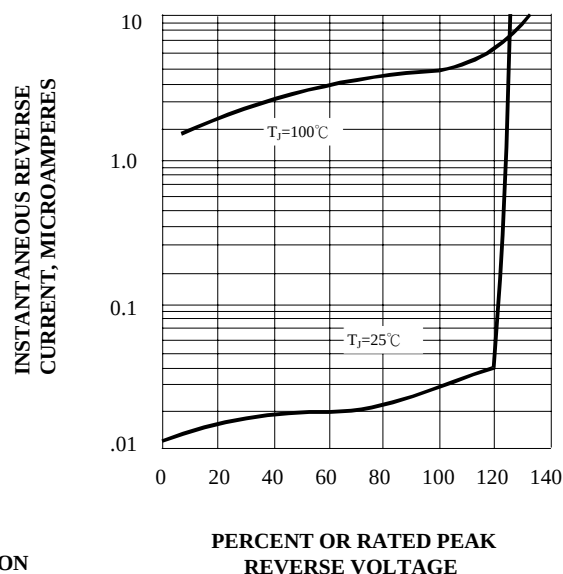


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

