



**BP50-005L
THRU
BP50-10L**

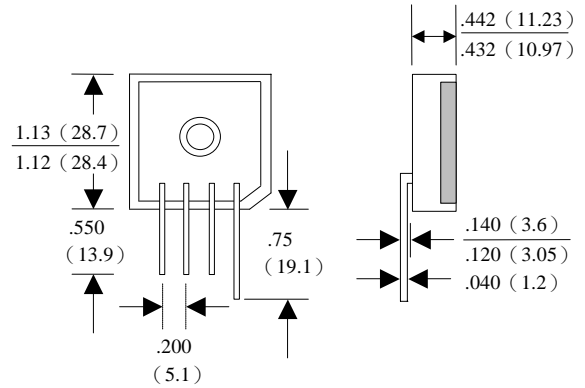
50A HIGH CURRENT BRIDGE RECTIFIERS

FEATURES

- CURRENT RATING 50A
- REVERSE VOLTAGE RATING UP TO 1000V
- TYPICAL IR LESS THAN 1μA
- HIGH TEMPERATURE SOLDERING GUARANTEED :
260°C /10 SECOND

MECHANICAL DATA

- CASE : METAL HEAT SINK CASE,ELECTRICALLY INSULATED
- TERMINALS : UNIVERSAL .25" (6.3mm) FASTON
- MOUNTING METHOD : BOLT DOWN ON HEAT SINK WITH SILICON THERMAL COMPOUND BETWEEN BRIDGE AND MOUNTING SURFACE FOR MAXIMUM HEAT TRANSFER EFFICIENCY
- WEIGHT : 20 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	BP50-005L	BP50-01L	BP50-02L	BP50-04L	BP50-06L	BP50-08L	BP50-10L	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 $T_C=55^\circ C$	I_O	50.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	600							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 175							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 175							°C

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

CHARACTERISTICS	SYMBOL	BP50-005L	BP50-01L	BP50-02L	BP50-04L	BP50-06L	BP50-08L	BP50-10L	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE PER BRIDGE ELEMENT AT SPECIFIED CURRENT	V_F	1.1							V
MAXIMUM REVERSE DC CURRENT AT RATED DC BLOCKING VOLTAGE PER ELEMENT	I_R	10							μA

NOTE : SUFFIX NO. VERSUS DIFFERENT CASES AND TERMINALS

RATINGS AND CHARACTERISTIC CURVES BP50-005L THRU BP50-10L

FIG 1 MAXIMUM OUTPUT RECTIFIED CURRENT

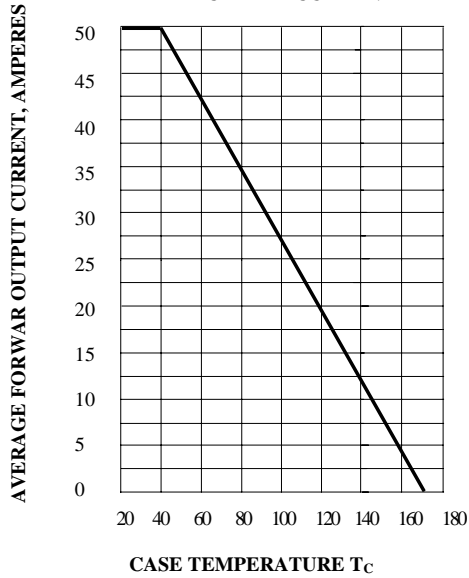


FIG 2 TYPICAL REVERSE CHARACTERISTICS AT T_j=25°C

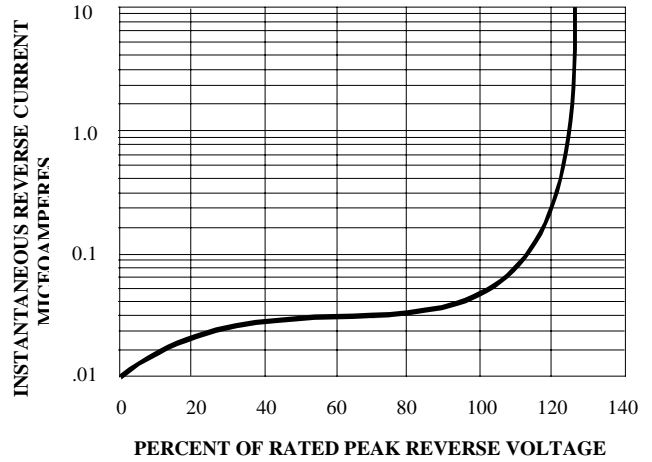


FIG 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

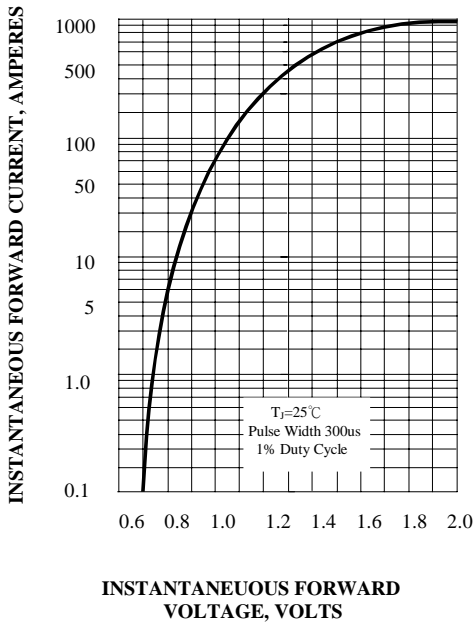
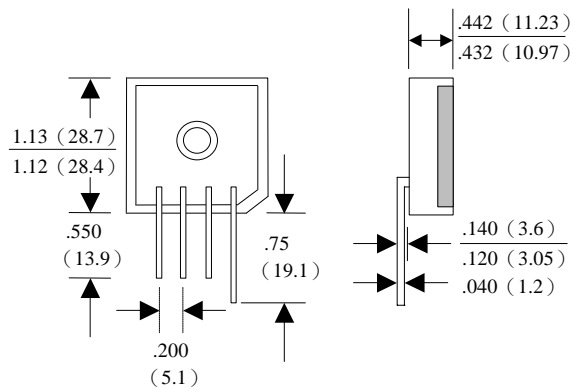
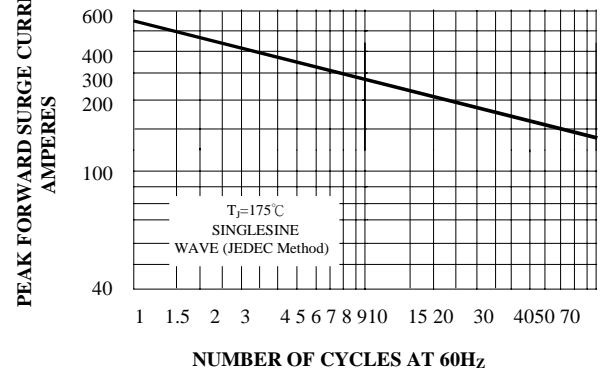


FIG 4 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



BP50-L IN LINE PIN CONFIGURATION (PLASTIC CASE)