



**FRONTIER
ELECTRONICS CO., LTD.**

**PBP10-005
THRU
PBP10-10**

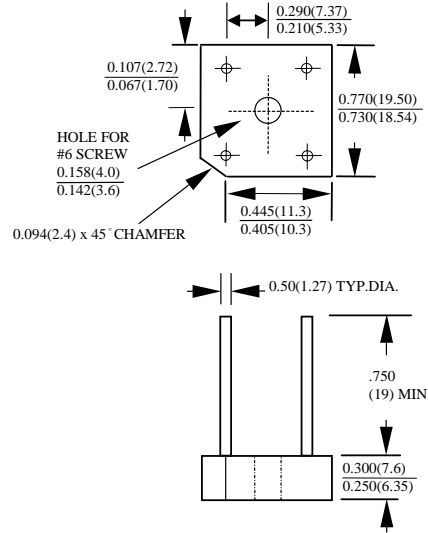
10A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

FEATURES

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

MECHANICAL DATA

- CASE : VOID-FREE PLASTIC PACKAGE
- TERMINALS : LEADS, SOLDERABLE PER MIL-STD-202,
METHOD 208
- MOUNTING POSITION : ANY
- WEIGHT : 6.9 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	PBP10-005	PBP10-01	PBP10-02	PBP10-04	PBP10-06	PBP10-08	PBP10-10	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 $T_C=55^\circ C$	I_O	10.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	150							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 175							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 175							°C

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

CHARACTERISTICS	SYMBOL	PBP10-005	PBP10-01	PBP10-02	PBP10-04	PBP10-06	PBP10-08	PBP10-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP AT 5.0A	V_F	1.1							V
MAXIMUM REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE PER ELEMENT $T_A=25^\circ C$	I_R	10							μA

RATINGS AND CHARACTERISTIC CURVES PBP10-005 THRU PBP10-10

FIG. 1 - MAXIMUM OUTPUT RECTIFIED CURRENT

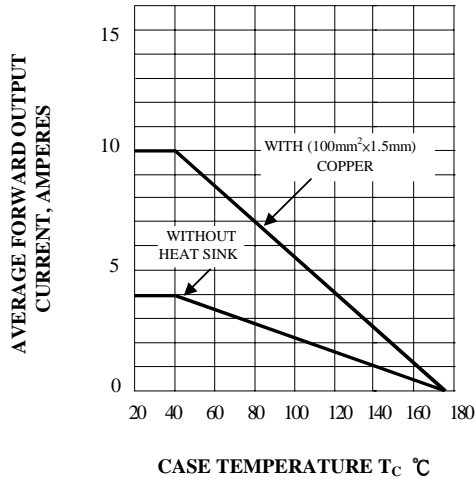


FIG. 2 - TYPICAL REVERS CHARACTERISTICS AT $T_j=25^\circ\text{C}$

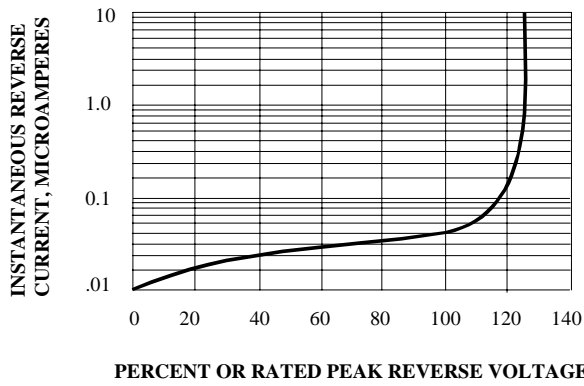


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

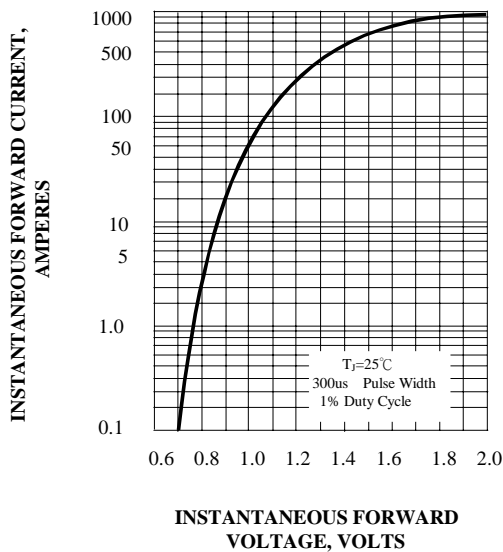


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

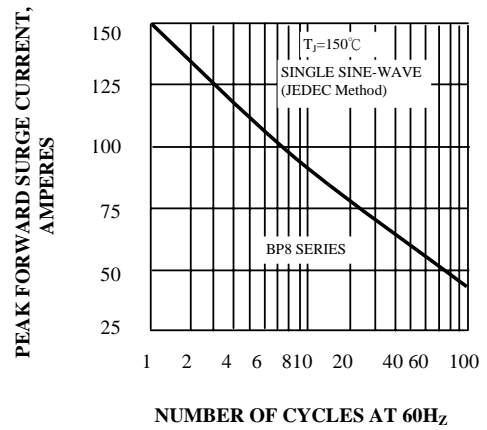


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

