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10A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

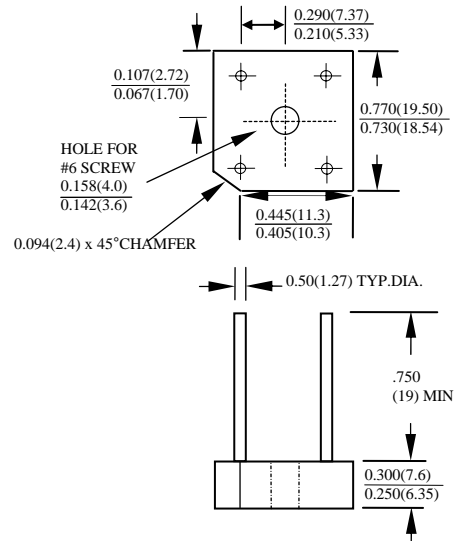
PBP10-005 THRU PBP10-10

FEATURES

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

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: 6.9 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	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 $T_C=55^\circ\text{C}$	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 $T_A=25^\circ\text{C}$ 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 RAT-ED DC BLOCKING VOLTAGE PER ELEMENT $T_A=25^\circ\text{C}$	I_R	10							μA

RATINGS AND CHARACTERISTIC CURVES PBP10-005 THRU PBP10-10

FIG. 1 - MAXIMUM OUTPUT RECTIFIED CURRENT

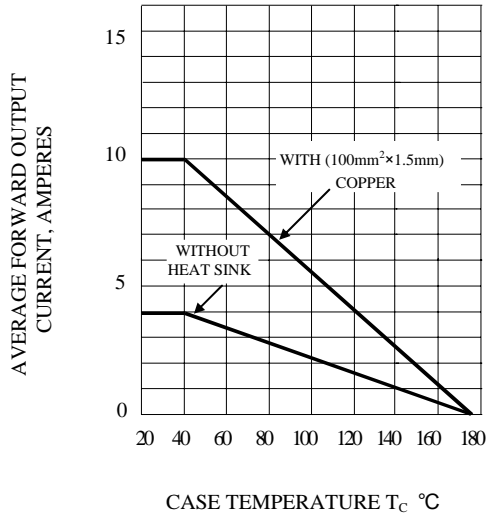


FIG. 4 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

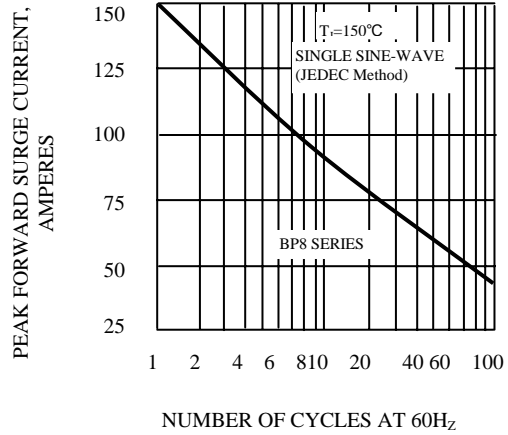


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS AT $T_j = 25^\circ\text{C}$

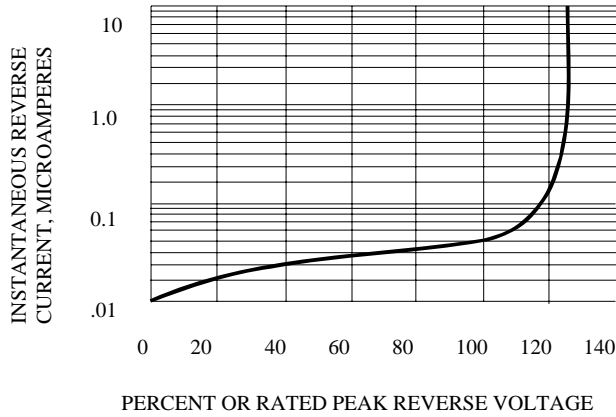


FIG. 5 - TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

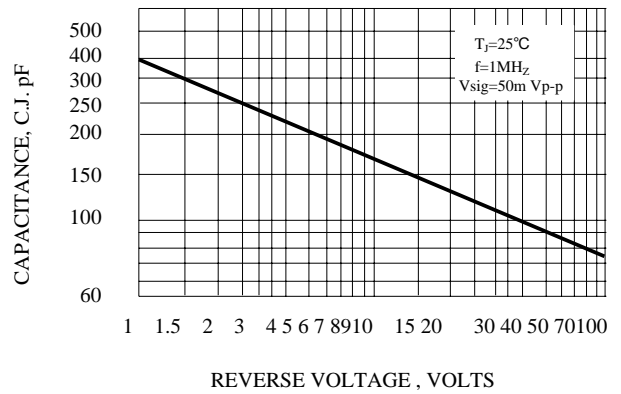


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

