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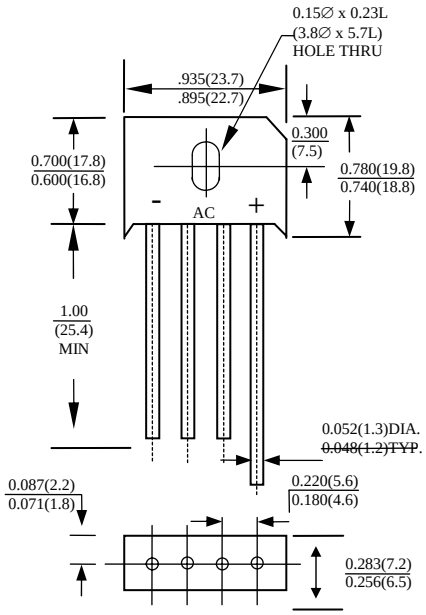
4A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

BU4-005 THRU BU4-10



FEATURES

- PLASTIC MATERIAL HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- IDEAL FOR PRINTED CIRCUIT BOARD
- HIGH TEMPERATURE SOLDERING GUARANTEED: 260°C /10S 0.375”(9.5mm) LEAD LENGTH AT 5 LBS (2.3KG) TENSION

MECHANICAL DATA

- CASE: MOLDED PLASTIC
  DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: LEADS SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING TORQUE: 5 IN-LB MAX
- MOUNTING POSITION: ANY
- WEIGHT: 8.0 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	BU4-005	BU4-01	BU4-02	BU4-04	BU4-06	BU4-08	BU4-10	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 (SEE FIG.1)	I_O	4.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	200							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							ºC
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150							ºC

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	BU4-005	BU4-01	BU4-02	BU4-04	BU4-06	BU4-08	BU4-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT I_{FM}	V_F	1.0							V
MAXIMUM REVERSE LEAKAGE AT RATE DC BLOCKING VOLTAGE PER ELEMENT TA=25ºC , TC=100ºC	I_R	10							µA

RATINGS AND CHARACTERISTIC CURVES BU4-005 THRU BU4-10

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

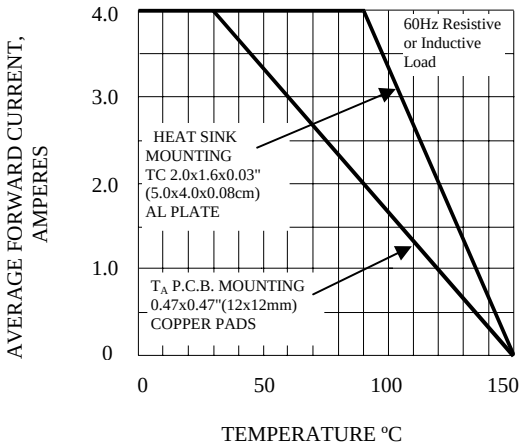


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

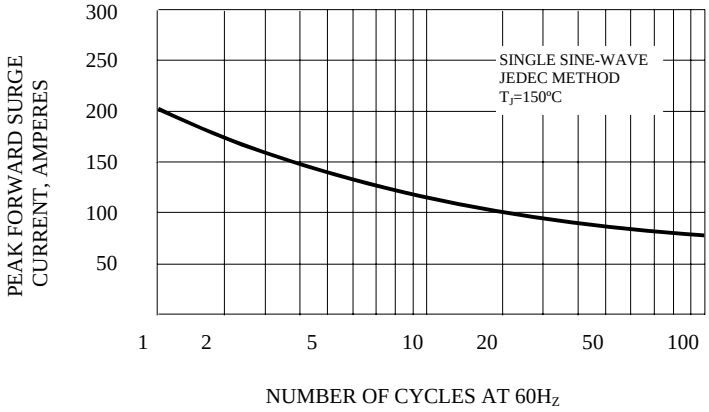


FIG. 3 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

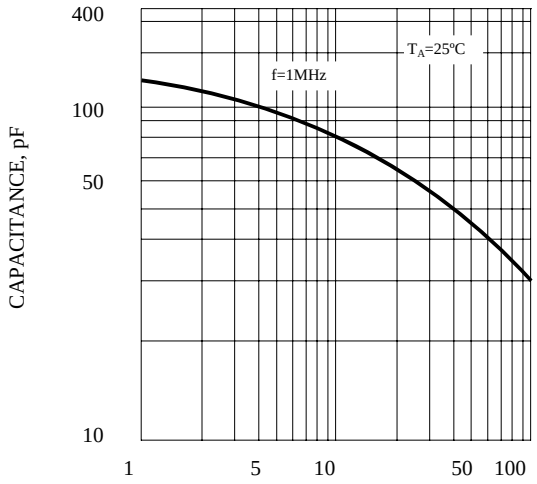
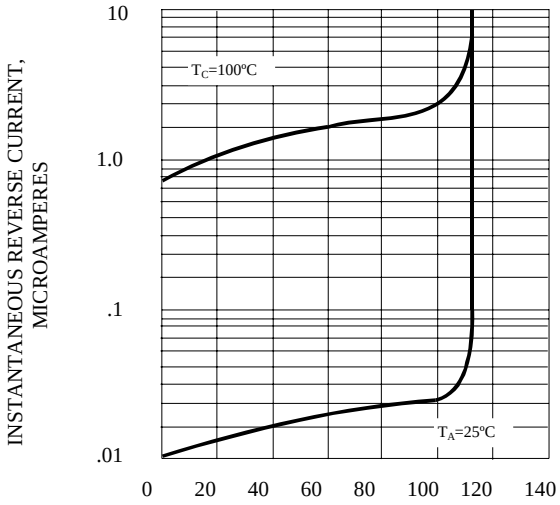


FIG. 4 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT



FI. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT