FRONTIER
ELECTRONICS CO., LTD.

BU6-005 THRU BU6-10

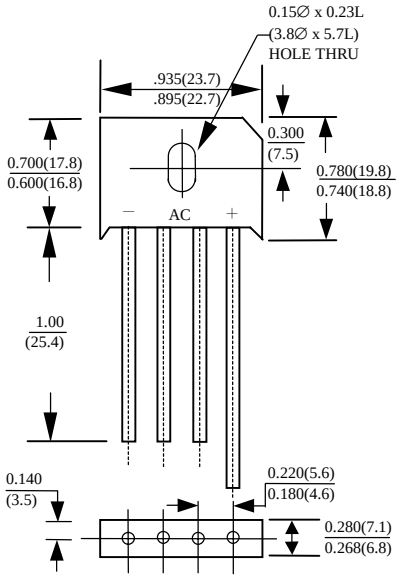
6A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

FEATURES

- PLASTIC MATERIAL HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- IDEAL FOR PRINTED CIRCUIT BOARD
- HIGH TEMPERATURE SOLDERING GUARANTEED：260℃ /10S .375″ (9.5mm) LEAD LENGTH AT 5 LBS (2.3KG) TENSION

MECHANICAL DATA

- CASE：MOLDED PLASTIC
- TERMINALS：LEADS SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING POSITION：ANY
- MOUNTING TORQUE：5 IN-LB MAX
- WEIGHT：8.0 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	BU6-005	BU6-01	BU6-02	BU6-04	BU6-06	BU6-08	BU6-10	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	6.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	250							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							℃
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150							℃

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

CHARACTERISTICS	SYMBOL	BU6-005	BU6-01	BU6-02	BU6-04	BU6-06	BU6-08	BU6-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT I_{FM}	V_F	1.0							V
MAXIMUM REVERSE LEAKAGE AT RATED DC BLOCKING VOLTAGE PER ELEMENT TA=25℃，TC=100℃	I_R	10							μA

RATINGS AND CHARACTERISTIC CURVES BU6-005 THRU BU6-10

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

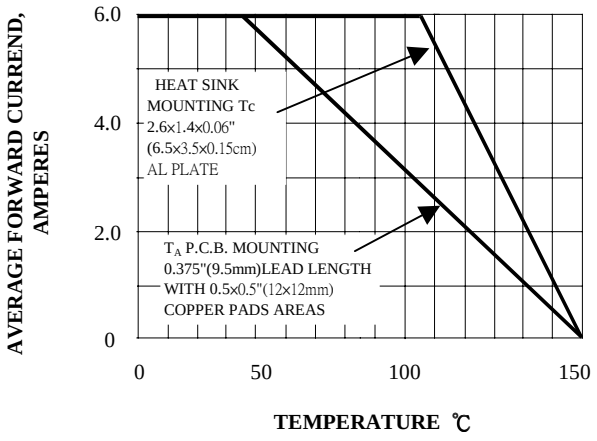


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

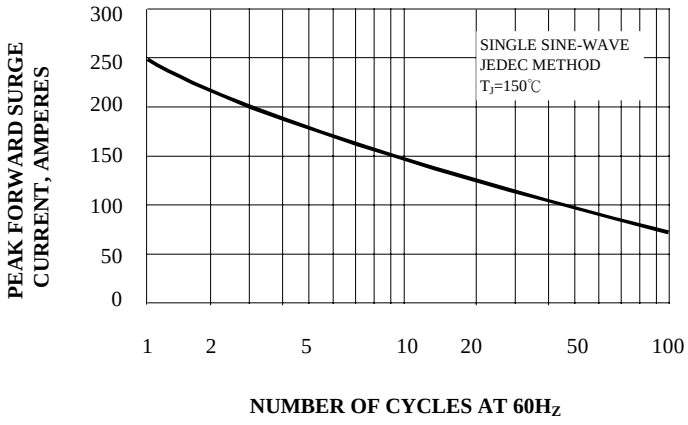


FIG. 3 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

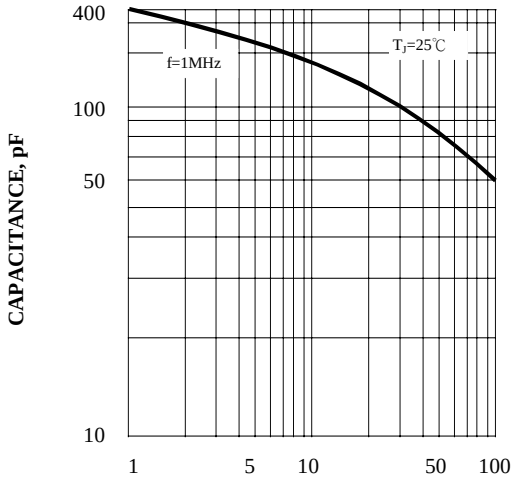
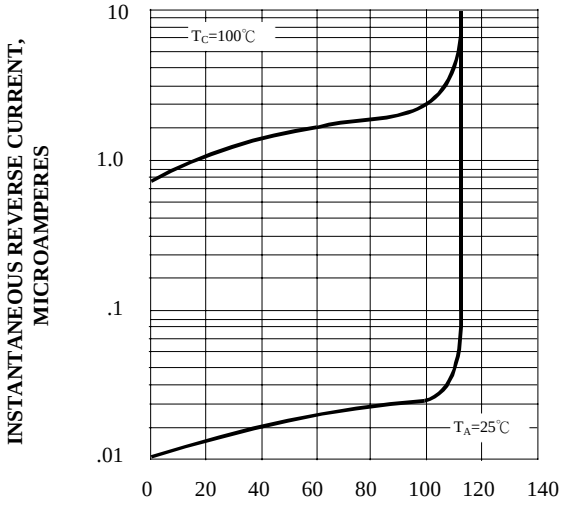


FIG. 4 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT



FI. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT