



**FRONTIER
ELECTRONICS CO., LTD.**

**GBU4-005
THRU
GBU4-10**

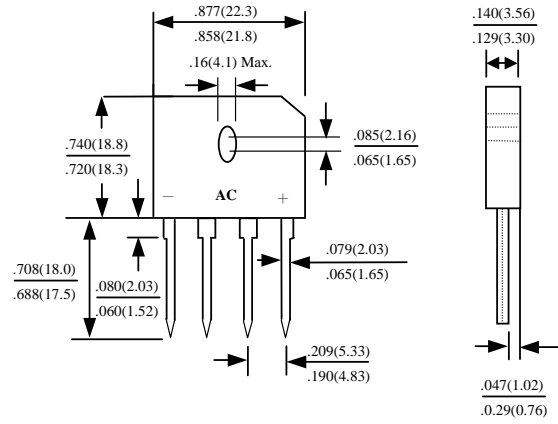
4A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

FEATURES

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

MECHANICAL DATA

- CASE : MOLDED PLASTIC
- TERMINALS : LEADS SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING TORQUE : 5 IN-LB MAX
- MOUNTING POSITION : ANY
- WEIGHT : 4.0 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	GBU4-005	GBU4-01	GBU4-02	GBU4-04	GBU4-06	GBU4-08	GBU4-10	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}	150							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150							°C

ELECTRICAL CHARACTERISTICS ($T_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	GBU4-005	GBU4-01	GBU4-02	GBU4-04	GBU4-06	GBU4-08	GBU4-10	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 $T_A=25^\circ\text{C}$, $T_C=100^\circ\text{C}$	I_R	5							μA

RATINGS AND CHARACTERISTIC CURVES GBU4-005 THRU GBU4-10

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

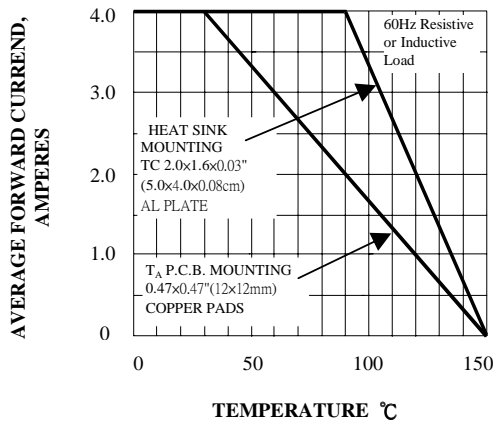


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

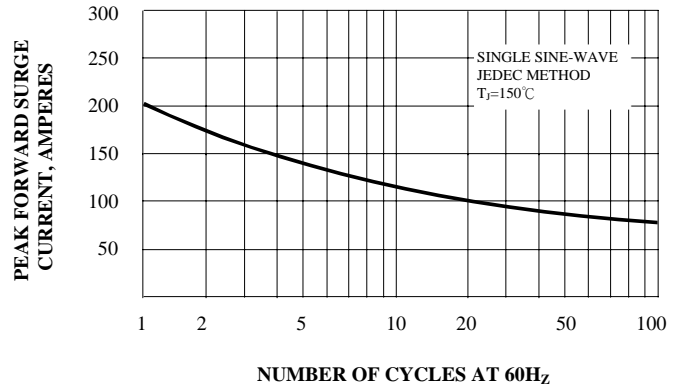


FIG. 3 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

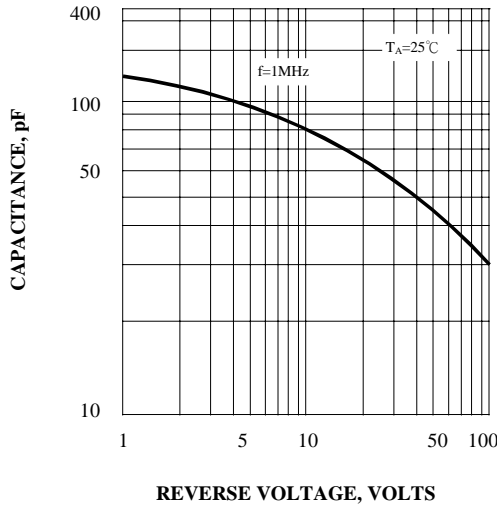


FIG. 4 - TYPICAL JUNCTION CAPACITANCE PER ELEMENT

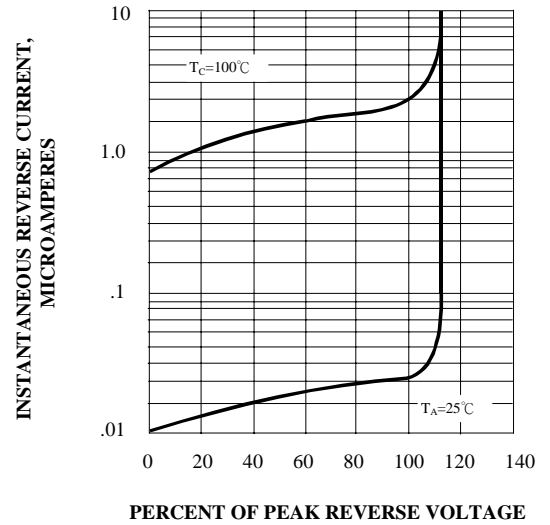


FIG. 5 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER ELEMENT

