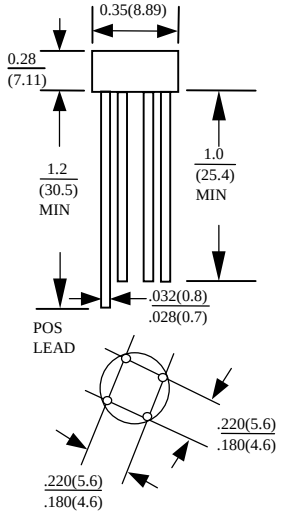
FRONTIER
ELECTRONICS CO., LTD.

W2-005 THRU W2-10

2A SILICON SINGLE-PHASE BRIDGE RECTIFIERS

FEATURES
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY FLAMMABILITY RECOGNITION 94V-0
- HIGH CASE DIELECTRIC STRENGTH
- TYPICAL IR LESS THAN 1μA
- HIGH OVERLOAD SURGE CAPABILITY
- IDEAL FOR PRINTED CIRCUIT BOARD

MECHANICAL DATA
- CASE：EPOXY CASE
- TERMINALS：LEADS SOLDERABLE PER MIL-STD-202 METHOD 208
- MOUNTING POSITION：ANY
- WEIGHT：1.1 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	W2-005	W2-01	W2-02	W2-04	W2-06	W2-08	W2-10	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 CURRENT .375″ (9.5mm) LEAD LENGTH AT TA=25°C	I_O	2.0							A
PEAK FORWARD SURGE CURRENT SINGLE SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150							℃
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125							℃

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

CHARACTERISTICS	SYMBOL	W2-005	W2-01	W2-02	W2-04	W2-06	W2-08	W2-10	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE DROP PER ELEMENT AT 2.0A	V_F	1.1							V
MAXIMUM REVERSE LEAKAGE AT RATED DC TA=25℃	I_R	10							μA

RATINGS AND CHARACTERISTIC CURVES W2-005 THRU W2-10

FIG. 1 - DERATING CURVE OUTPUT RECTIFIED CURRENT

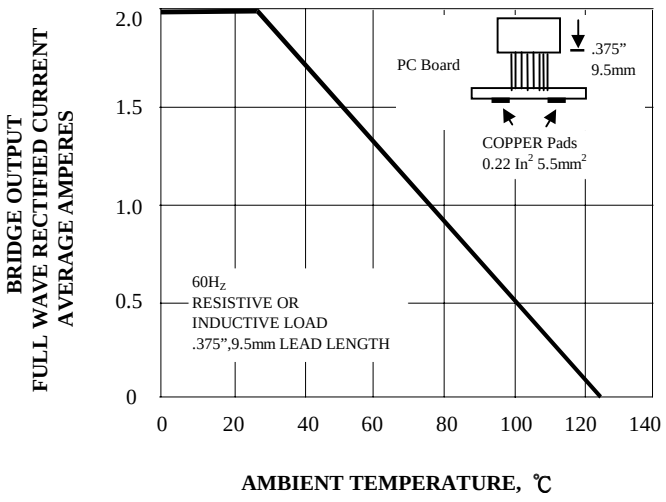


FIG. 2 - TYPICAL REVERSE CHARACTERISTICS

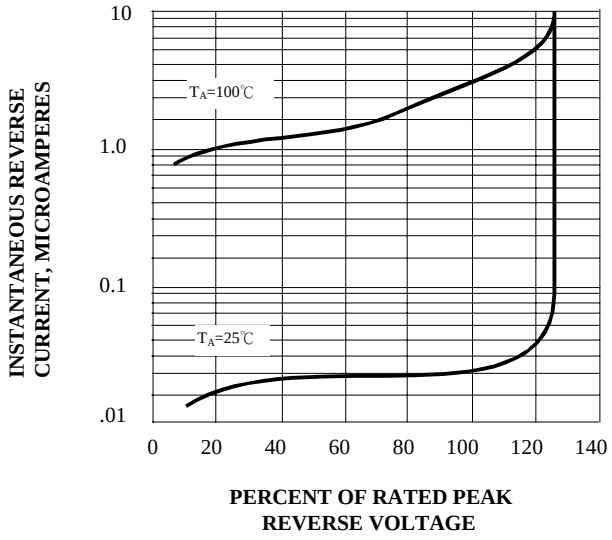


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS PER ELEMENT

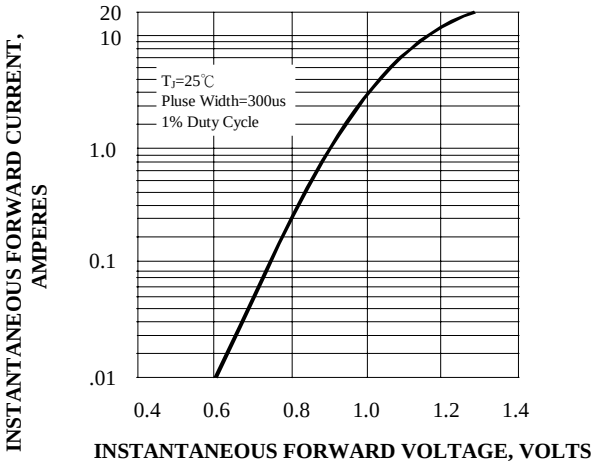


FIG. 4 - TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

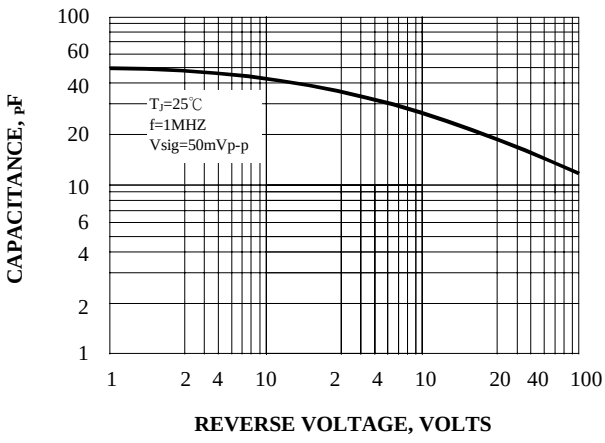


FIG. 5 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT