



**FRONTIER
ELECTRONICS CO., LTD.**

HIGH VOLTAGE RECTIFIER ASSEMBLIES

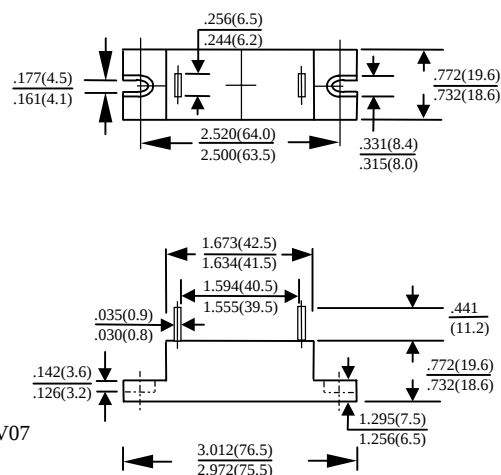
**HV07-08
THRU
HV07-16**

FEATURES

- ISOLATED CASE
- SURGE OVERLOAD RATING-50 AMPERES PEAK
- SILVER-PLATED COPPER TERMINALS
- LOW LEAKAGE, LOW FORWARD VOLTAGE DROP

MECHANICAL DATA

- CASE : HV07
- POLARITY : CATHODE TO LARGE HOLE TERMINAL
- WEIGHT : 30 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	HV07-08	HV07-09	HV07-10	HV07-12	HV07-14	HV07-15	HV07-16	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	8000	9000	10000	12000	14000	15000	16000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	5600	6300	7000	8400	9800	10500	11200	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	8000	9000	10000	12000	14000	15000	16000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT TC=60°C	I_O	750							mA
PEAK FORWARD SURGE CURRENT	I_{FSM}	50							A
STORAGE TEMPERATURE RANGE	T_{STG}	- 20 TO + 135							°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 20 TO + 135							°C

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

CHARACTERISTICS	SYMBOL	HV07-08	HV07-09	HV07-10	HV07-12	HV07-14	HV07-15	HV07-16	V
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	10.0			14.0		16.0		V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5							μA

RATINGS AND CHARACTERISTICS HV07-08 THRU HV07-16

FIG. 1 - FORWARD CURRENT
DERATING CURVE

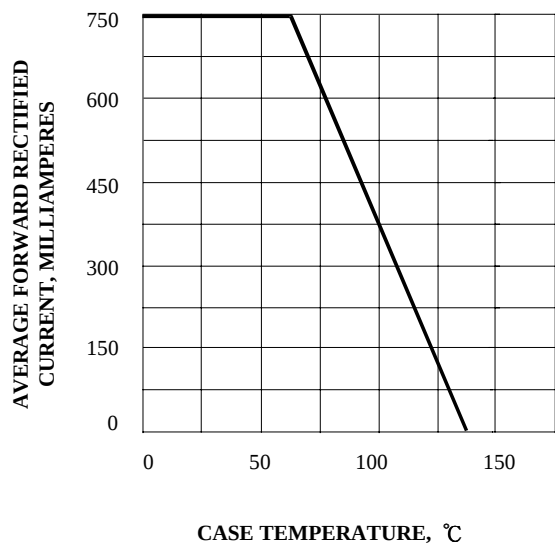


FIG. 2 - TYPICAL REVERSE
CHARACTERISTICS 25°C T_A

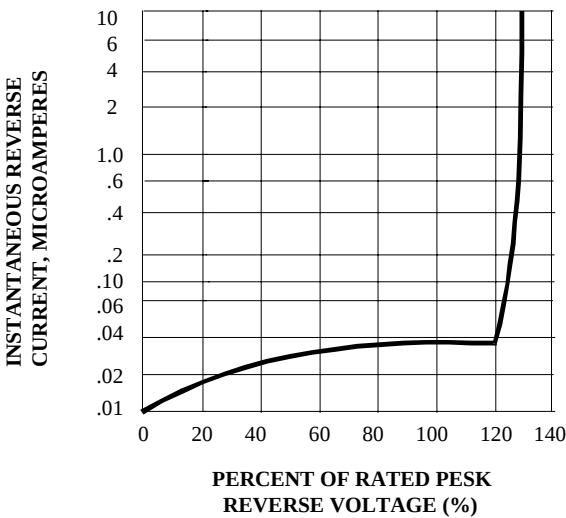


FIG. 3 - PEAK FORWARD SURGE RATING

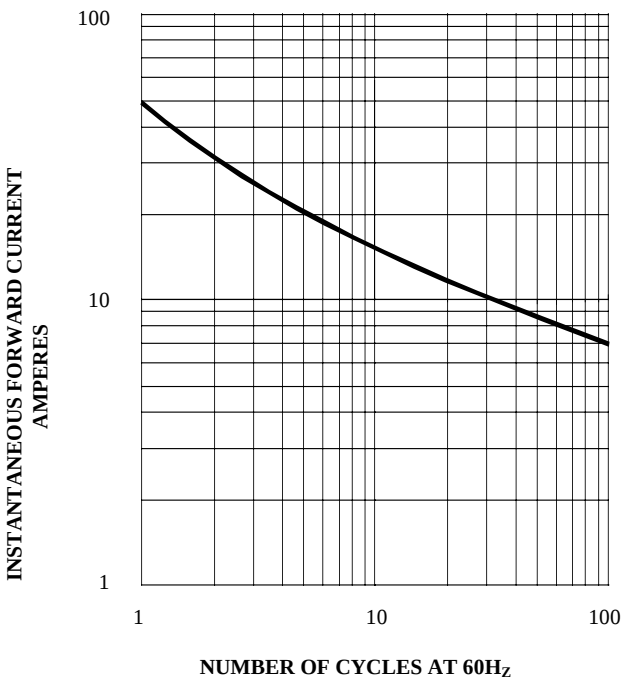


FIG. 4 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

