



**HV03-08
THRU
HV03-16**

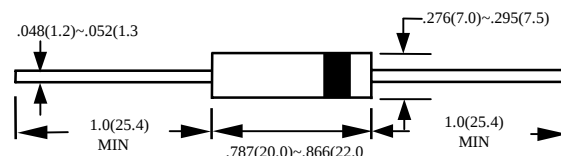
HIGH VOLTAGE MICROWAVE OVEN RECTIFIER

FEATURES

- CONTROLLED AVALANCHE CHARACTERISTIC COMBINED WITH THE ABILITY TO DISSIPATE REVERSE POWER
- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- LOW FORWARD VOLTAGE DROP
- TYPICAL IR LESS THAN 1 μ A
- HIGH OVERLOAD SURGE CAPABILITY
- HIGH TEMPERATURE SOLDERING GUARANTEED : 260°C/10S / .375" (9.5mm) LEAD LENGTH AT 5 LBS., (2.3KG) TENSION

MECHANICAL DATA

- CASE : RELIABLE LOW COST CONSTRUCTION UTILIZING MOLDED PLASTIC TECHNIQUE
- TERMINALS : AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING POSITION : ANY
- WEIGHT : 2.8 GRAMS



CASE-HV

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	HV03-08	HV03-09	HV03-10	HV03-12	HV03-14	HV03-16	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	8000	9000	10000	12000	14000	16000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	5600	6300	7000	8400	9800	11200	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	8000	9000	10000	12000	14000	16000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_A=55^\circ\text{C}$	I_O	350						mA
PEAK FORWARD SURGE CURRENT, 9.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	30						A
STORAGE TEMPERATURE RANGE	T_{STG}	- 40 TO + 130						$^\circ\text{C}$
OPERATING TEMPERATURE RANGE	T_{OP}	- 40 TO + 130						$^\circ\text{C}$

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

CHARACTERISTICS	SYMBOL	HV03-08	HV03-09	HV03-10	HV03-12	HV03-14	HV03-16	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE AT 350mA	V _F	10.0			12.0	15.0		V
MAXIMUM DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE	I _R	5						μA

RATINGS AND CHARACTERISTIC CURVE HV03-08 THRU HV03-16

FIG. 1-FORWARD CURRENT DERATING CURVE

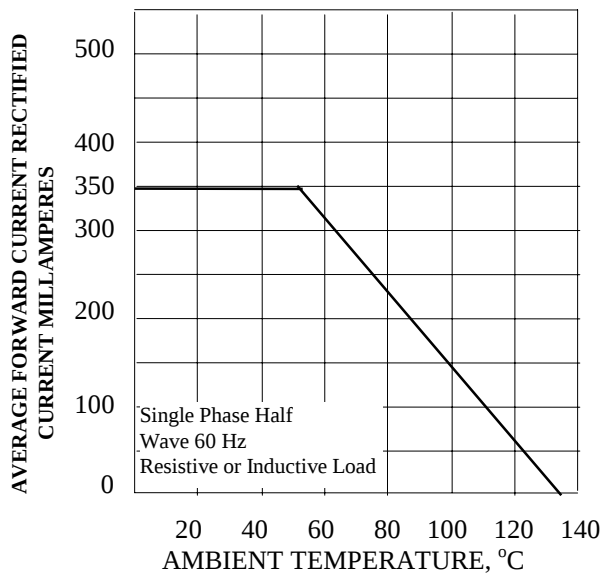


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

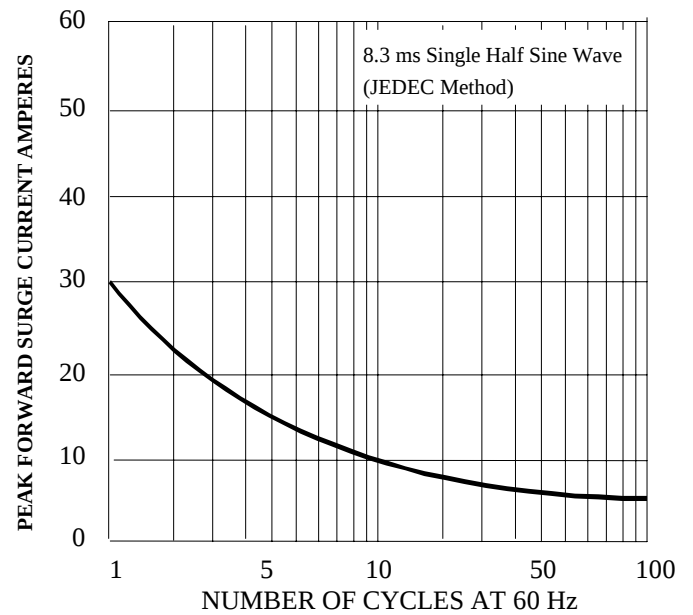


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

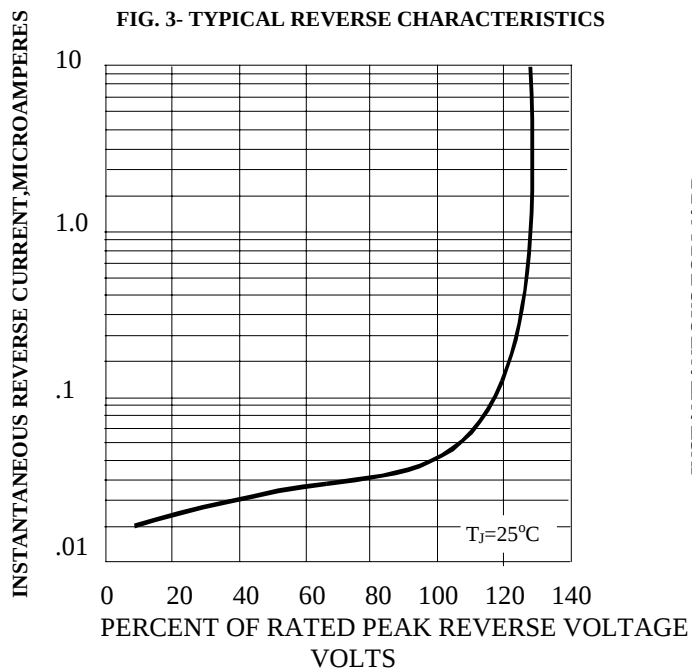


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

