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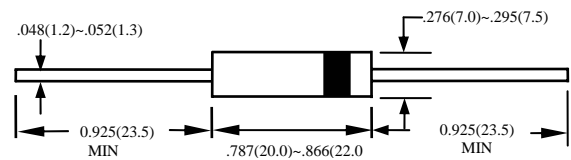
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## HIGH VOLTAGE MICROWAVE OVEN RECTIFIER

### HV03-08-LFR THRU HV03-16-LFR

#### 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  $\mu$ A
- HIGH OVERLOAD SURGE CAPABILITY
- HIGH TEMPERATURE SOLDERING GUARANTEED: 260°C/10S /0.375"(9.5mm) LEAD LENGTH AT 5 LBS., (2.3KG) TENSION
- ROHS



#### MECHANICAL DATA

- CASE: HV, RELIABLE LOW COST CONSTRUCTION UTILIZING MOLDED PLASTIC TECHNIQUE DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- MOUNTING POSITION: ANY
- WEIGHT: 2.8 GRAMS

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 -LFR	HV03-09 -LFR	HV03-10 -LFR	HV03-12 -LFR	HV03-14 -LFR	HV03-15 -LFR	HV03-16 -LFR	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 $T_A=55^\circ\text{C}$	$I_O$	350							mA
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	30							A
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 40 TO + 130							°C
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 40 TO + 130							°C

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

CHARACTERISTICS	SYMBOL	HV03-08 -LFR	HV03-09 -LFR	HV03-10 -LFR	HV03-12 -LFR	HV03-14 -LFR	HV03-15 -LFR	HV03-16 -LFR	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE AT $I_O$ DC	$V_F$	10.0			12.0	15.0			V
MAXIMUM DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE	$I_R$	5							$\mu$ A

# RATINGS AND CHARACTERISTIC CURVE HV03-08-LFR THRU HV03-16-LFR

FIG. 1-FORWARD CURRENT DERATING CURVE

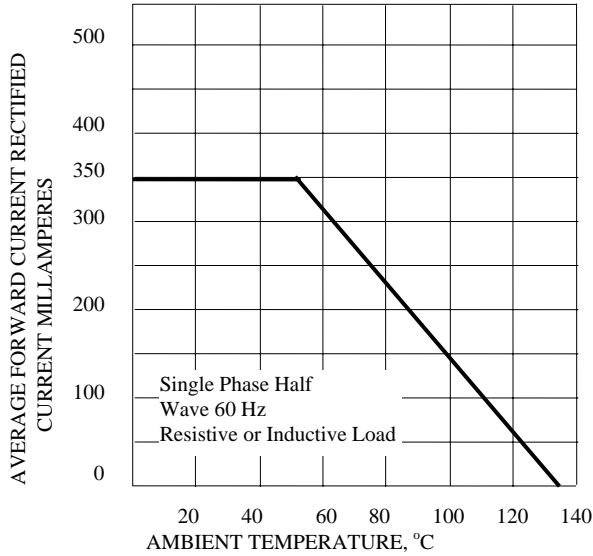


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

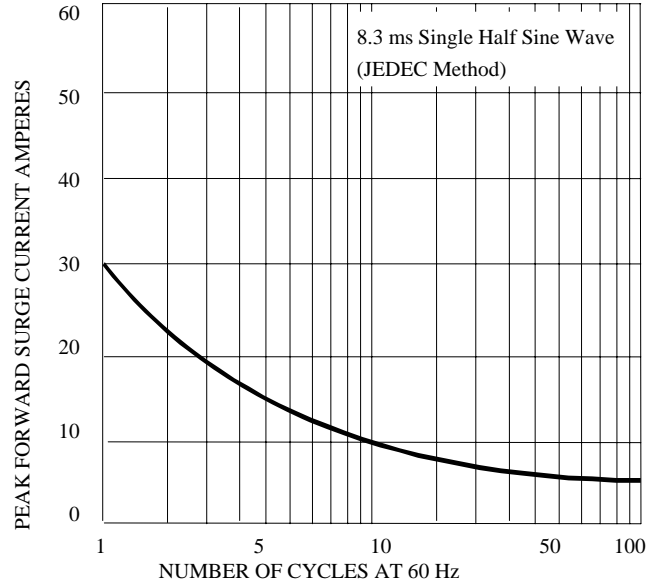


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

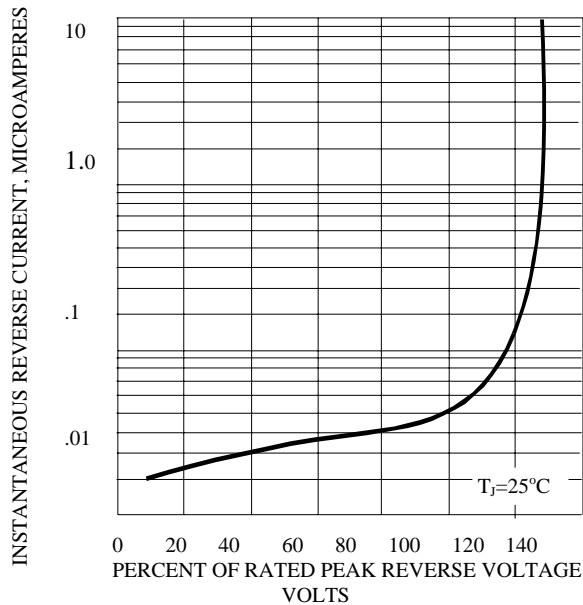


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

