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FAST RECOVERY HIGH VOLTAGE MICROWAVE OVEN RECTIFIER

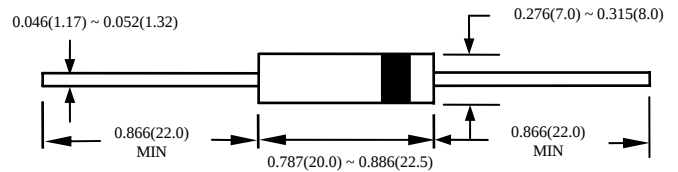
FHV03-08 THRU FHV03-16

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 /0.375" (9.5mm) LEAD LENGTH AT 5 LBS., (2.3KG) TENSION

MECHANICAL DATA

- CASE: 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	FHV03-08	FHV03-09	FHV03-10	FHV03-12	FHV03-16	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	8000	9000	10000	12000	16000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	5600	6300	7000	8400	11200	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	8000	9000	10000	12000	16000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_L=55^\circ\text{C}$	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 + 125					°C

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

CHARACTERISTICS	SYMBOL	FHV03-08	FHV03-09	FHV03-10	FHV03-12	FHV03-16	UNITS
MAXIMUM INSTANTANEOUS FORWARD VOLTAGE AT I_O DC	V_F	22	22	26	26	32	V
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	T_{RR}	100					nS
MAXIMUM DC REVERSE CURRENT AT RATED DC BLOCKING VOLTAGE	I_R	5					μ A

NOTE: 1. REVERSE RECOVERY TEST CONDITIONS: $I_F / I_{RP} = 100/100$ (mA)

RATINGS AND CHARACTERISTIC CURVE FHV03-08 THRU FHV03-16

FIG. 1-FORWARD CURRENT DERATING CURVE

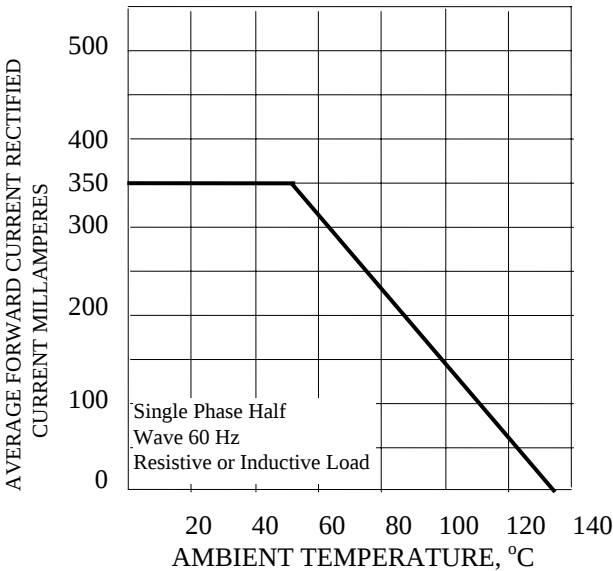


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

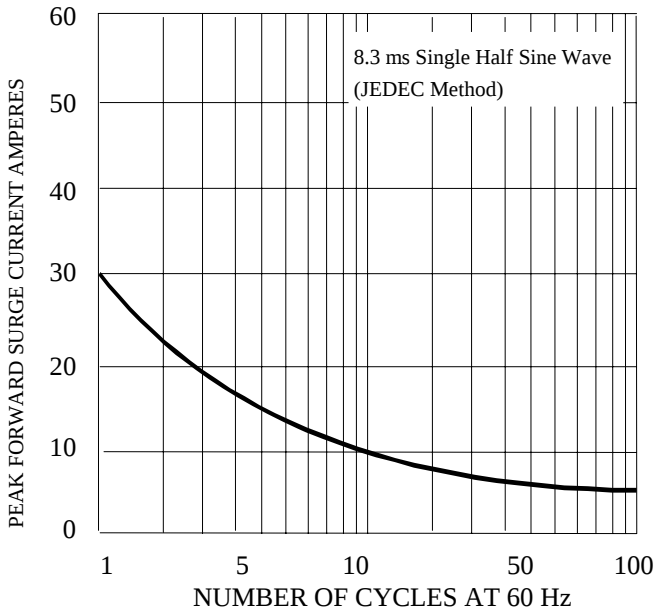


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

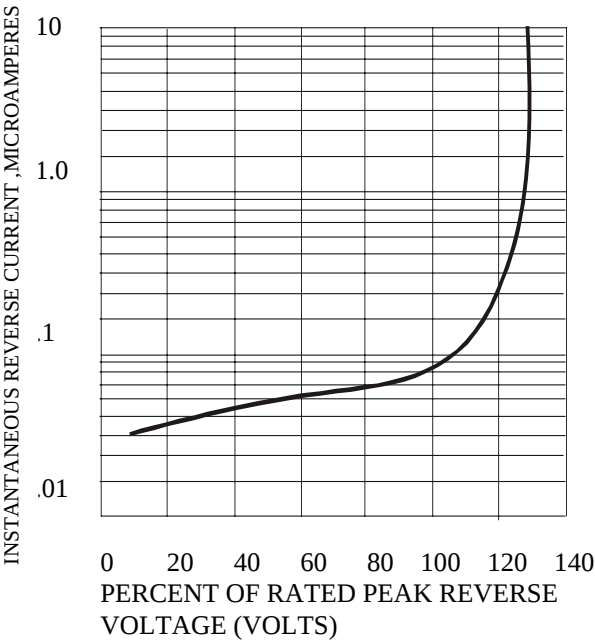


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

