



FHV03-08 THRU FHV03-09 SPECIFICATIONS

Rev. A

FAST RECOVERY HIGH VOLTAGE MICROWAVE OVEN RECTIFIER

<table><tr><th colspan="3">Value Inch[mm]</th></tr><tr><th>Dim.</th><th>Min.</th><th>Max.</th></tr><tr><td>A</td><td>0.866[22.00]</td><td>---</td></tr><tr><td>B</td><td>0.787[19.99]</td><td>0.866[22.00]</td></tr><tr><td>C</td><td>0.267[6.78]</td><td>0.295[7.49]</td></tr><tr><td>D</td><td>0.048[1.22]</td><td>0.052[1.32]</td></tr></table>	Value Inch[mm]			Dim.	Min.	Max.	A	0.866[22.00]	---	B	0.787[19.99]	0.866[22.00]	C	0.267[6.78]	0.295[7.49]	D	0.048[1.22]	0.052[1.32]	PRODUCT FEATURES 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. DESIGNED MICROWAVE OVEN AND AIR CLEANER 3. TYPICAL I_R LESS THAN 1uA 4. CASE: HV03 TRANSFER MOLDED 5. DIMENSIONS IN INCHES AND (MILLIMETERS) 6. POLARITY: INDICATED BY CATHODE BAND 7. WEIGHT: 2.8 GRAMS 8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208 9. PULLING TEST: 2.3 KG 10. RoHS
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +120°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT @ TL=55°C	I_O	0.35	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	15	A
MAXIMUM REVERSE CURRENT @ 25°C, VDC	I_R	10	uA
MAXIMUM REVERSE RECOVERY TIME (NOTE1)	T_{RR}	150	nS

1. REVERSE RECOVERY TIME TEST CONDITIONS, $I_F/I_{RP} = 100/100$ (mA) 90% RECOVER

2. MAXIMUM FORWARD VOLTAGE @ I_O

PART NUMBER	MAX RECURRENT PK REV VOLTAGE V_{RRM} (V)	MAX RMS VOLTAGE V_{RMS} (V)	MAX DC BLOCKING VOLTAGE V_{DC} (V)	MAX FWD VOLTAGE V_F (V)
FHV03-08	7500	5250	7500	13.5
FHV03-09	8500	5950	8500	14



RATING AND CHARACTERISTIC CURVES

FIG. 1-FORWARD CURRENT DERATING CURVE

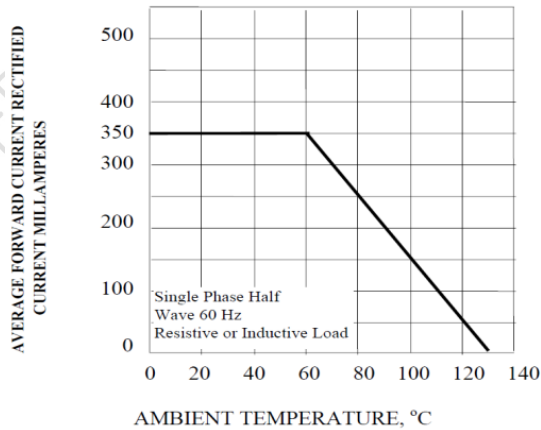


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

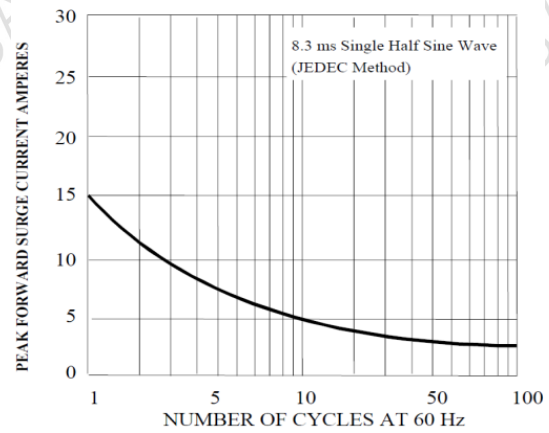


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

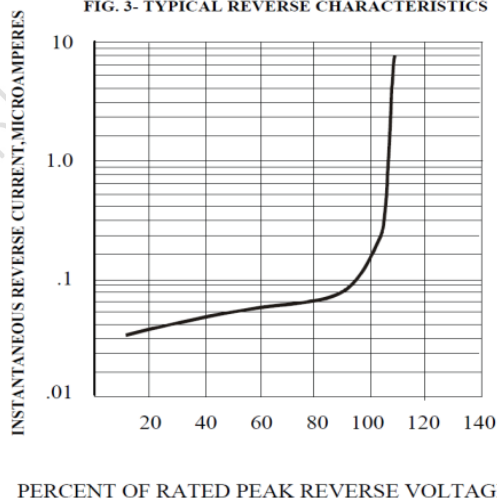


FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

