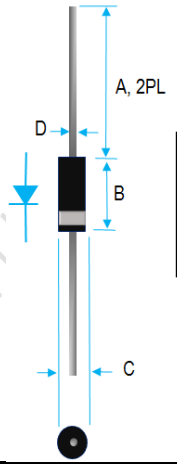
FH10M-08 THRU FH10M-24 SPECIFICATIONS

Rev. A

HIGH VOLTAGE FAST RECOVERY AIR CLEANER RECTIFIER



Dim.	Value Inch[mm]	
	Min.	Max.
A	1.000[25.40]	---
B	0.787[19.99]	0.866[22.00]
C	0.267[6.78]	0.295[7.49]
D	0.024[0.61]	0.035[0.89]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. DESIGNED FOR AIR CLEANER APPLICATION
3. TYPICAL I_R LESS THAN 1uA
4. LOW FORWARD VOLTAGE DROP
5. HIGH SURGE CURRENT CAPABILITY
6. CASE: FH TRANSFER MOLDED
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. POLARITY: INDICATED BY CATHODE BAND
9. WEIGHT: 2.4 GRAMS
10. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
11. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +135°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	I_O	0.01	A
PEAK FWD SURGE CURRENT	I_{FSM}	0.5	A
TYPICAL JUNCTION CAPACITANCE	C_J	1	pF
MAXIMUM REVERSE CURRENT @ 25°C	I_R	5	uA
MAXIMUM REVERSE RECOVERY TIME (NOTE1)	T_{RR}	100	nS

1. REVERSE RECOVERY TIME TEST CONDITIONS, I_F=2.0mA, V_R 18/24V
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)
FH10M-08	8000	5600	8000	30
FH10M-10	10000	7000	10000	36
FH10M-12	12000	8400	12000	45
FH10M-16	16000	11200	16000	60
FH10M-20	20000	14000	20000	75
FH10M-24	24000	16800	24000	85

RATING AND CHARACTERISTIC CURVES

FIG. 1-FORWARD CURRENT DERATING CURVE

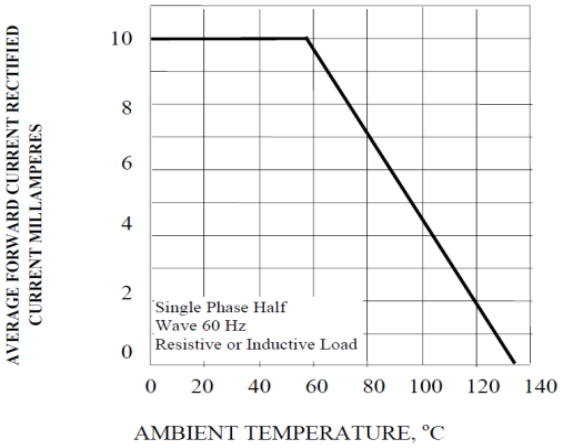


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE RATING

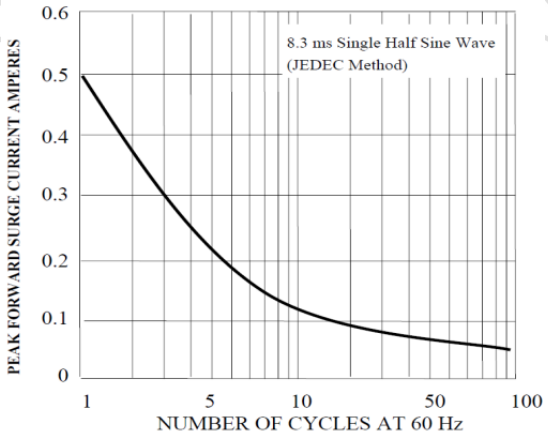


FIG. 3- TYPICAL REVERSE CHARACTERISTICS

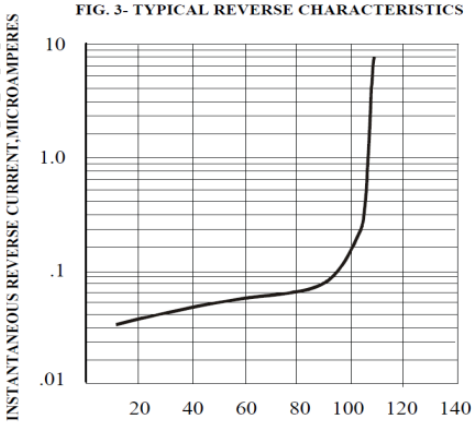
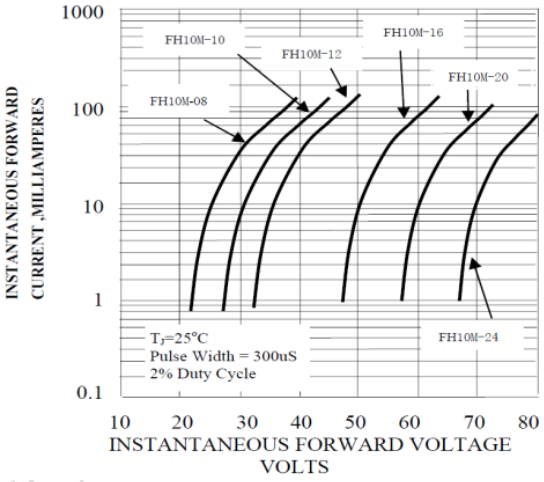



FIG. 4- TYPICAL INSTANTANEOUS FORWARD CHARCTERISTICS