



Frontier Electronics Corp.

667 E. COCHRAN STREET, SIMI VALLEY, CA 93065

TEL: (805) 522-9998 FAX: (805) 522-9989

E-mail: frontiersales@frontierusa.com

Web: <http://www.frontierusa.com>

HIGH VOLTAGE FAST RECOVERY RECTIFIER

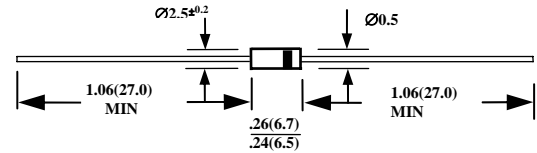
FV5M-04 THRU FV5M-24

FEATURES

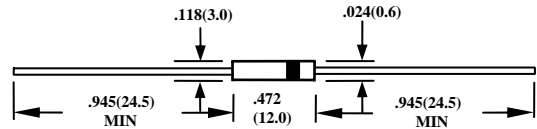
- FOR COLOR TV RECEIVERS / MONITORS
TRIPLER CIRCUIT, DOUBLERS CIRCUIT, SINGLE CIRCUIT.
MULTISTAGE SINGULAR FLY BACK TRANSFORMER
- DIFFUSED-JUNCTION
- EXCELLENT HIGH TEMPERATURE OUTPUT CHARACTERISTICS

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DIMENSIONS IN INCHES AND (MILLIMETERS)
- LEADS: SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: FV5M-1 0.17GRAMS
FV5M 0.35GRAMS



CASE: FV5M-1



CASE: FV5M

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	-04	-05	-06	-08	-10	-12	-14	-16	-18	-20	-22	-24	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	4000	5000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	2800	3500	4200	5600	7000	8400	9800	11200	12600	14000	15400	16800	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	4000	5000	6000	8000	10000	12000	14000	16000	18000	20000	22000	24000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375"(9.5mm) LEAD LENGTH AT $T_A=55^\circ\text{C}$	I_O	5												mA
PEAK FORWARD SURGE CURRENT	I_{FSM}	0.5												A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_j	1.0												PF
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 135												°C
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 135												°C

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

CHARACTERISTICS	SYMBOL	-04	-05	-06	-08	-10	-12	-14	-16	-18	-20	-22	-24	UNITS
MAXIMUM FORWARD VOLTAGE AT 10mA DC	V_F	12.0	16.0	20.0	25.0	30.0	37.5	42.5	50.0	55.0	62.5	75.0	V	
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5												μA
MAXIMUM REVERSE RECOVERY TIME AT 25°C(NOTE 2)	T_{RR}	100												nS
PACKAGE		FV5M-1						FV5M						

- NOTE: 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. REVERSE RECOVERY TEST CONDITIONS: $I_F=2\text{mA}$, $I_R=4\text{mA}$, $I_{RR}=1\text{mA}$