FRONTIER
ELECTRONICS CO., LTD.

FV5M-04 THRU FV5M-24

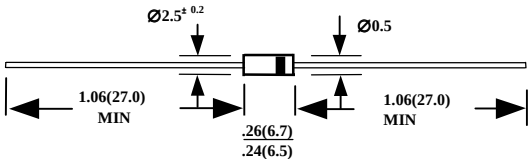
HIGH VOLTAGE FAST RECOVERY RECTIFIER

FEATURES

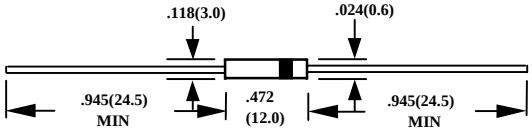
- FOR COLOR TV RECEIVERS / MONITORS
  TRIPLER CIRCUIT,DOUBLER CIRCUIT,SINGLE CIRCUIT.
  MULTSTAGE SINGULAR FLYBACK TRANSFORMER.
- DIFFUSED-JUNCTION
- EXCELLENT HIGH TEMPERATURE OUTPUT CHARACTERISTICS

MECHANICAL DATA

- CASE：TRANSFER MOLDED
- 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

DIMENSIONS IN INCHES AND (MILLIMETERS)

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 .375″ (9.5mm) LEAD LENGTH AT TA=55°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												℃
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 135												℃

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	-04	-05	-06	-08	-10	-12	-14	-16	-18	-20	-22	-24	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O 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℃	I_R	5												μA
MAXIMUM REVERSE RECOVERY TIME AT 25℃ (NOTE 2)	T_{RR}	50				100								nS
PACKAGE		FV5M-1				FV5M								

NOTE ：

1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE 0F 4.0 VOLTS
2. REVERSE RECOVERY TEST CONDITIONS: I_F=2mA, I_R=4mA, I_{RR}=1mA