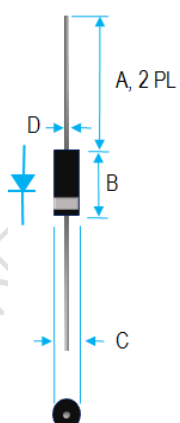




FV5M-04 THRU FV5M-24 SPECIFICATIONS

Rev. A

HIGH VOLTAGE FAST RECOVERY RECTIFIER

	Value Inch[mm] FM5V-1		
	Dim.	Min.	Max.
FV5M-1: -04 THRU -12 FV5M: -14 THRU -24	A	1.03[26.0]	---
	B	0.240[6.10]	0.260[6.60]
	C	0.091[2.30]	0.106[2.70]
	D	0.020[0.51]	0.030[0.76]
	Value Inch[mm] FM5V		
	Dim.	Min.	Max.
	A	0.945[24.00]	---
	B	0.46[11.7]	0.48[12.3]
	C	0.108[2.74]	0.128[3.25]
	D	0.024[0.61]	0.035[0.89]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. DIFFUSED JUNCTION
3. CASE: FV5M/FV5M-1 TRANSFER MOLDED
4. DIMENSIONS IN INCHES AND (MILLIMETERS)
5. POLARITY: INDICATED BY CATHODE BAND
6. WEIGHT: FV5M 0.35 GRAMS / FV5M-1 0.17 GRAMS
7. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
8. RoHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -40°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, 0.375"(9.5mm) LEAD LENGTH @ 55°C	I_O	0.005	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	0.5	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	C_J	1	pF
MAXIMUM REVERSE CURRENT @ 25°C	I_R	5	uA
MAXIMUM REVERSE RECOVERY TIME	T_{RR}	100	nS

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. REVERSE RECOVERY TEST CONDITIONS: $I_F=2mA$, $I_R=4mA$, $I_{RR}=1mA$
3. MAXIMUM FORWARD VOLTAGE AT I_O DC
4. FV5M-1 FOR FV5M-04 THRU FV5M-12 , FV5M FOR FV5M-14 THRU FV5M-24

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)
FV5M-04	4000	2800	4000	12
FV5M-05	5000	3500	5000	16
FV5M-06	6000	4200	6000	20
FV5M-08	8000	5600	8000	25
FV5M-10	10000	7000	10000	30
FV5M-12	12000	8400	12000	37.5
FV5M-14	14000	9800	14000	51
FV5M-16	16000	11200	16000	60
FV5M-18	18000	12600	18000	66
FV5M-20	20000	14000	20000	75
FV5M-22	22000	15400	22000	80
FV5M-24	24000	16800	24000	85



RATING AND CHARACTERISTIC CURVES

FIG. 1 TYPICAL REVERSE CHARACTERISTICS

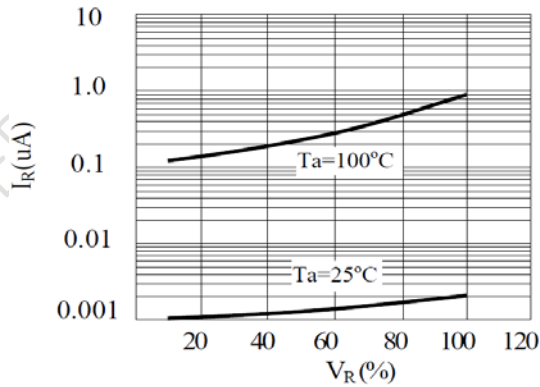


FIG. 2 TYPICAL JUNCTION CAPACITANCE

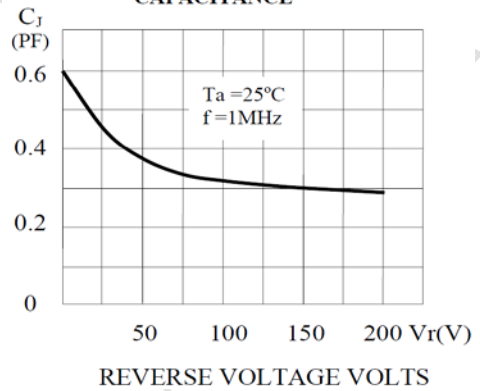


FIG. 3 TYPICAL DISTRIBUTION OF REVERSE RECOVERY TIME

