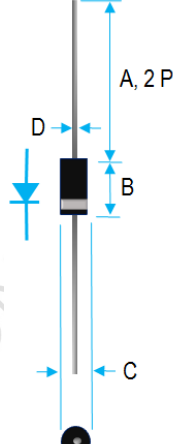


## HIGH VOLTAGE FAST RECOVERY RECTIFIER

 <table border="1" data-bbox="332 420 714 588"> <thead> <tr> <th rowspan="2">Dim.</th> <th colspan="2">Value Inch[mm]</th> </tr> <tr> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1.030[26.16]</td> <td>---</td> </tr> <tr> <td>B</td> <td>0.380[9.65]</td> <td>0.400[10.16]</td> </tr> <tr> <td>C</td> <td>0.091[2.30]</td> <td>0.106[2.70]</td> </tr> <tr> <td>D</td> <td>0.020[0.51]</td> <td>0.030[0.76]</td> </tr> </tbody> </table>	Dim.	Value Inch[mm]		Min.	Max.	A	1.030[26.16]	---	B	0.380[9.65]	0.400[10.16]	C	0.091[2.30]	0.106[2.70]	D	0.020[0.51]	0.030[0.76]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> <li>1. FLAMMABILITY CLASSIFICATION: 94V-0</li> <li>2. DIFFUSED JUNCTION</li> <li>3. CASE: FV5M-2 TRANSFER MOLDED</li> <li>4. DIMENSIONS IN INCHES AND (MILLIMETERS)</li> <li>5. POLARITY: INDICATED BY CATHODE BAND</li> <li>6. WEIGHT: FV5M 0.26 GRAMS</li> <li>7. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208</li> <li>8. RoHS</li> </ol>
Dim.		Value Inch[mm]																
	Min.	Max.																
A	1.030[26.16]	---																
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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%.

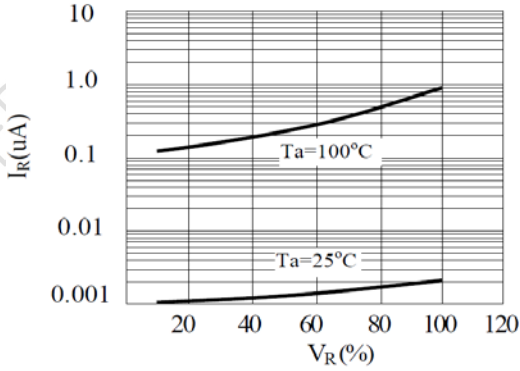
RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375"(9.5mm) LEAD LENGTH @ 55°C	$I_o$	0.005	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	0.5	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	$C_j$	1	pF
MAXIMUM FORWARD VOLTAGE	$V_F$	45	V
MAXIMUM REVERSE CURRENT @ 25°C	$I_R$	5	uA
MAXIMUM REVERSE RECOVERY TIME (NOTE 2)	$T_{RR}$	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

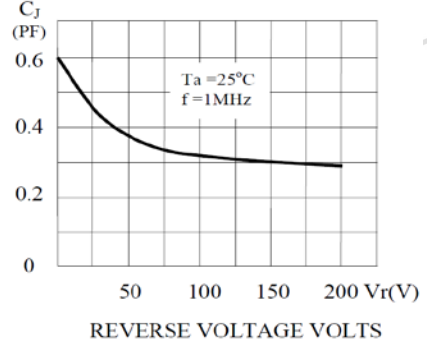
PART NUMBER	MAX RECURRENT PK REV VOLTAGE $V_{RRM}$ (V)	MAX RMS VOLTAGE $V_{RMS}$ (V)	MAX DC BLOCKING VOLTAGE $V_{DC}$ (V)
FV5MS-12	12000	8400	12000

## RATING AND CHARACTERISTIC CURVES

**FIG. 1 TYPICAL REVERSE CHARACTERISTICS**



**FIG. 2 TYPICAL JUNCTION CAPACITANCE**



**FIG. 3 TYPICAL DISTRIBUTION OF REVERSE RECOVERY TIME**

