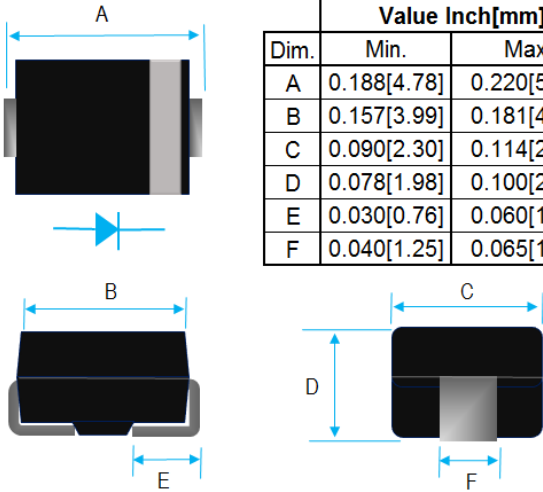


0.5A FAST RECOVERY PHOTO FLASH RECTIFIER

	Value Inch[mm]	
	Dim.	Min.
A	0.188[4.78]	0.220[5.60]
B	0.157[3.99]	0.181[4.60]
C	0.090[2.30]	0.114[2.90]
D	0.078[1.98]	0.100[2.60]
E	0.030[0.76]	0.060[1.52]
F	0.040[1.25]	0.065[1.65]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION 94V-0
2. GLASS PASSIVATED CHIP JUNCTION
3. BUILT-IN STRAIN RELIEF
4. FAST SWITCHING FOR HIGH FREQUENCY CIRCUITS
5. LOW FORWARD VOLTAGE/LOW PROFILE
6. CASE: TRANSFER MOLDED, DO-214AC (SMA)
7. DIMENSIONS IN INCHES AND (MILLIMETERS)
8. LEADS: SOLDERABILITY PER MIL-STD-750 METHOD 2026
9. PLATING FINISH: TIN
10. WEIGHT: 0.064 GRAMS
11. RoHS COMPLIANT. ADD SUFFIX "H" FOR HALOGEN FREE. i.e.. FFM05-15-H

ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL		UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE NOTE 1	I_o	0.5	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	20	A
TYPICAL JUNCTION CAPACITANCE @ 1MHz & REVERSE VOLTAGE 4V	C_J	5	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	65	$^\circ\text{C/W}$
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO +150	$^\circ\text{C}$
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO +125	$^\circ\text{C}$
MAXIMUM REVERSE CURRENT AT 25 $^\circ\text{C}$	I_R	5.0	μA
MAXIMUM REVERSE CURRENT AT 100 $^\circ\text{C}$	I_R	50	μA
MAXIMUM REVERSE RECOVERY TIME, SEE NOTE 3	T_{rr}	500	nS

PART NUMBER	MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V_{RRM}/V_R (V)	MAX V_{RMS} (V)	MAXIMUM FORWARD VOLTAGE @ 25 $^\circ\text{C}$ V_F (V)
FFM05-15	1500	1050	1.5
FFM05-20	2000	1400	1.5

- NOTE :
1. AT $T_L=90^\circ\text{C}$, SEE FIG 1 FOR CURRENT DERATING .
 2. PCB MOUNTED 0.2"x0.2" (5X5mm) COPPER PAD AREAS.
 3. REVERSE RECOVERY TIME TEST CONDITION: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$.



RATINGS AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT DERATING CURVE

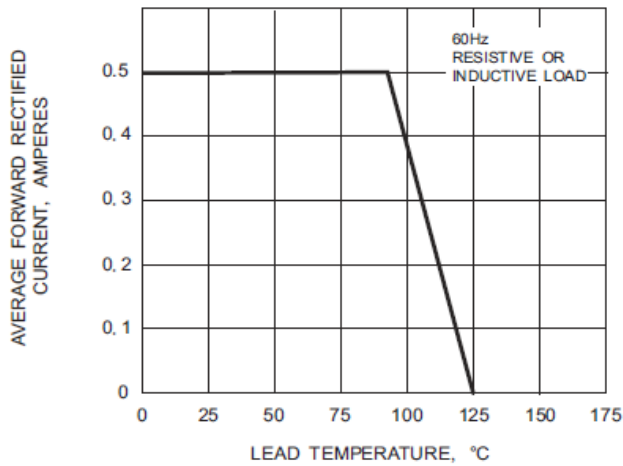


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

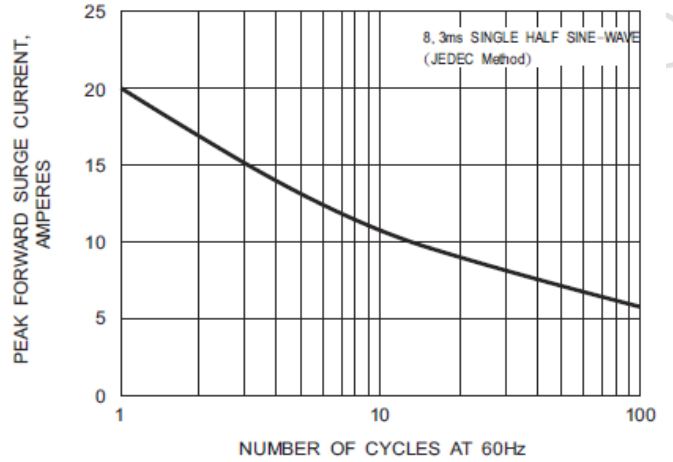


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

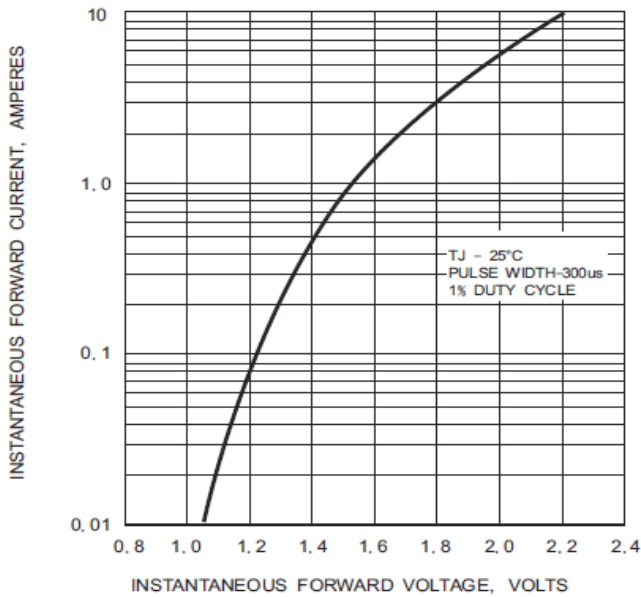


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

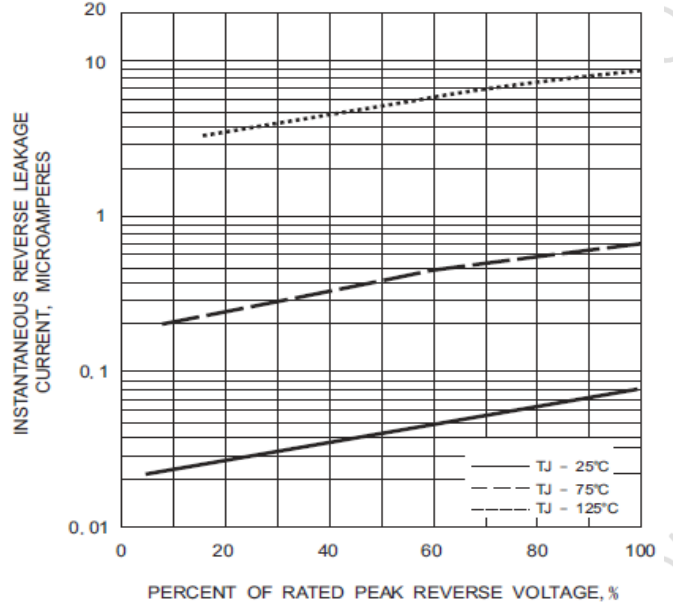


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

