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SURFACE MOUNT FAST RECOVERY PHOTO FLASH RECTIFIER

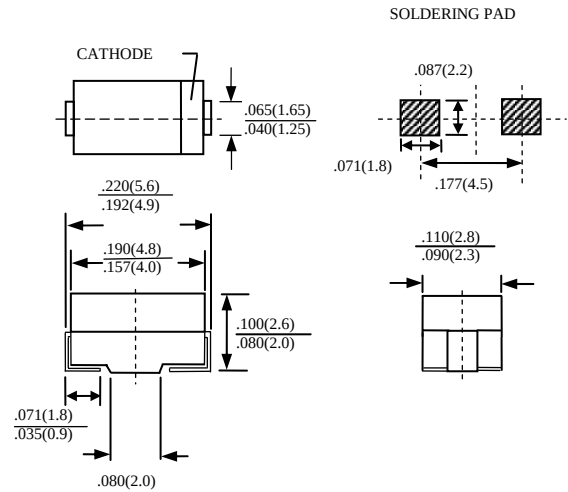
FFM05-10 THRU FFM05-20

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY CLASSIFICATION 94 V-0
- FAST SWITCHING
- HIGH TEMPERATURE SOLDERING: 250°C/10 SECONDS AT TERMINALS

MECHANICAL DATA

- CASE: MOLDED PLASTIC, DO-214AC (SMA), DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINALS: SOLDER PLATED
- POLARITY: INDICATED BY CATHODE BAND
- WEIGHT: 0.064 GRAMS



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	FFM05-10	FFM05-15	FFM05-16	FFM05-18	FFM05-20	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	1000	1500	1600	1800	2000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	700	1050	1120	1260	1400	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	1000	1500	1600	1800	2000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT AT $T_L=90^{\circ}C$	I_O	0.5					A
MAXIMUM OVERLOAD SURGE, 8.3ms SINGLE HALF SINE-WAVE	I_{FSM}	30					A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jL}$	20					$^{\circ}C/W$
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	15					PF
STORAGE TEMPERATURE RANGE	T_{STG}	-55 TO + 150					$^{\circ}C$
OPERATING TEMPERATURE RANGE	T_{OP}	-55 TO + 125					$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	FFM05-10	FFM05-15	FFM05-16	FFM05-18	FFM05-20	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	2.0					V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5					μA
MAXIMUM REVERSE RECOVERY TIME (NOTE 3)	T_{RR}	500					nS

- NOTE: 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
 2. THERMAL RESISTANCE FROM JUNCTION TO AMBIENT AND JUNCTION TO LEAD P.C.B. MOUNTED ON 0.3×0.3" (8.0×8.0mm) COPPER PAD AREAS
 3. REVERSE RECOVERY TEST CONDITIONS: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$

RATINGS AND CHARACTERISTICS CURVES FFM05-10 THRU FFM05-20

FIG. 1-MAXIMUM CURRENT DERATING CURVE

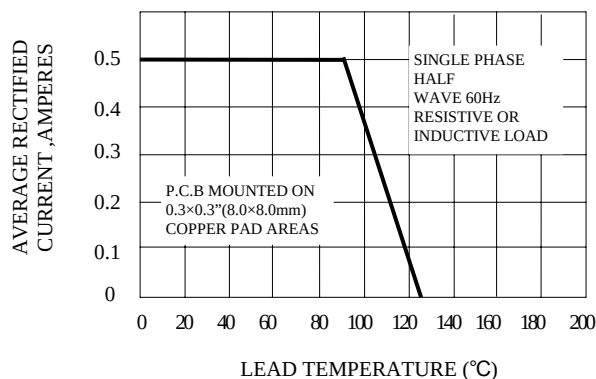


FIG. 2-MAXIMUM FORWARD SURGE VS NUMBER OF CYCLES

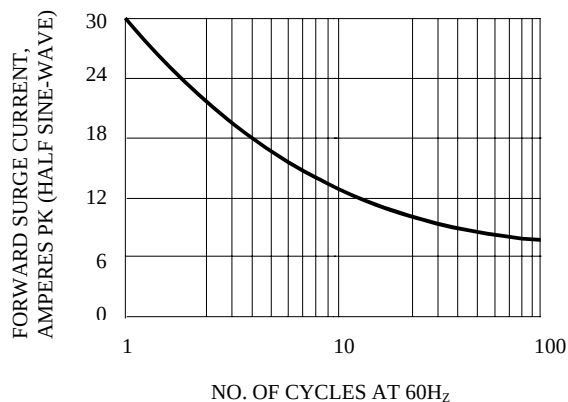


FIG. 3-TYPICAL REVERSE CHARACTERISTICS AT $T_J=25^{\circ}\text{C}$

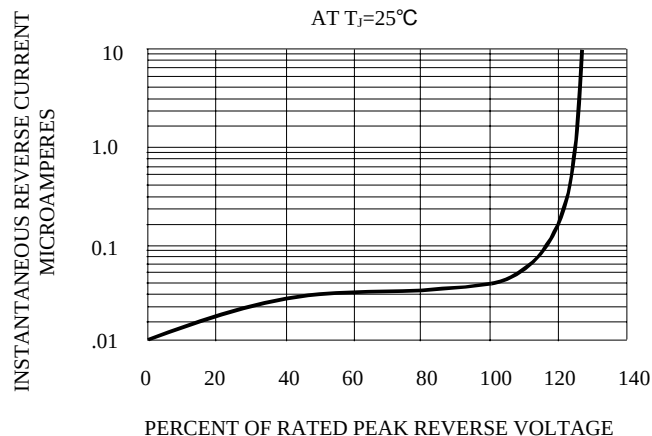


FIG. 4-TYPICAL JUNCTION CAPACITANCE

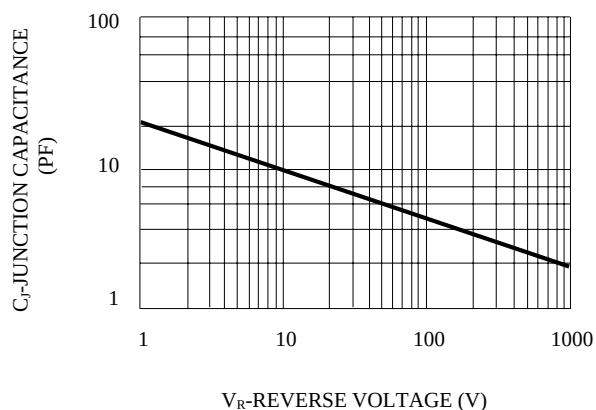


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

