

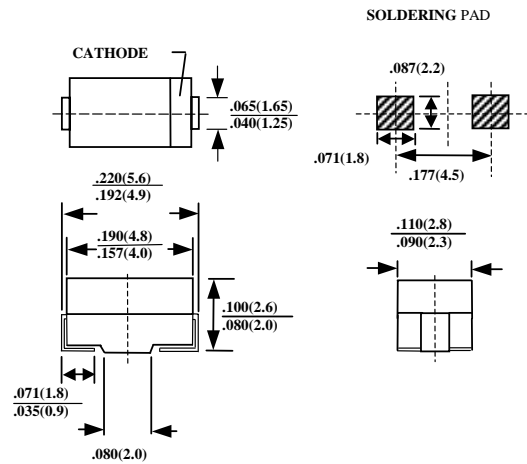
SURFACE MOUNT FAST RECOVERY PHOTO FLASH RECTIFIER

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
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.064 GRAMS



CASE : DO-214AC (SMA)
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 | 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 $T_L=90^\circ\text{C}$ | 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 | | | | | | °C/W |
| TYPICAL JUNCTION CAPACITANCE (NOTE 1) | C_J | 15 | | | | | | PF |
| STORAGE TEMPERATURE RANGE | T_{STG} | -55 TO + 150 | | | | | | °C |
| OPERATING TEMPERATURE RANGE | T_{OP} | -55 TO + 125 | | | | | | °C |

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ 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: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

RATINGS AND CHARACTERISTICS CURVES FFM05-10 THRU FFM05-20

FIG. 1-MAXIMUM CURRENT DERATING CURVE

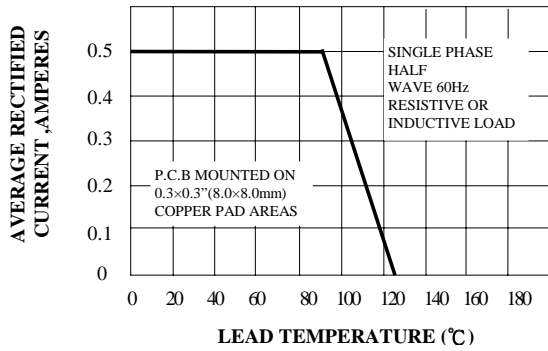


FIG. 2-MAXIMUM FORWARD SURGE VS NUMBER OF CYCLES

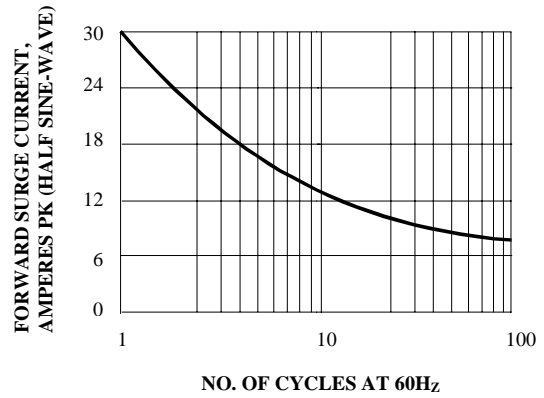


FIG. 3-TYPICAL REVERSE CHARACTERISTICS AT T_J=25°C

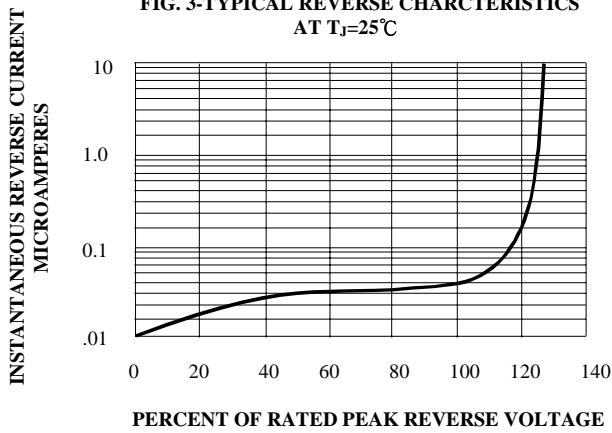


FIG. 4-TYPICAL JUNCTION CAPACITANCE

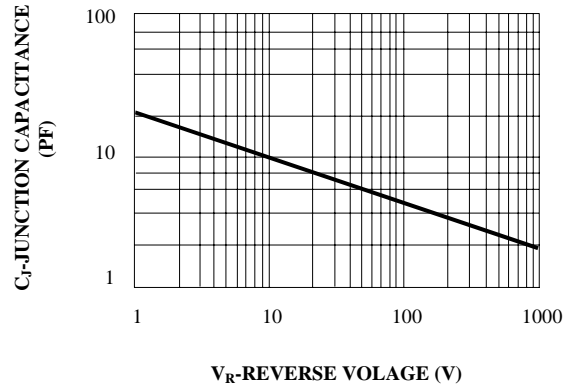


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

