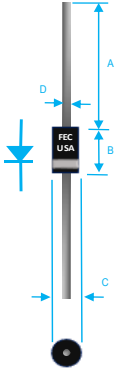


FAST RECOVERY HIGH VOLTAGE RECTIFIER



Dim.	Value in (mm)	
	Min.	Max.
A	1.000[25.40]	---
B	0.166[4.22]	0.205[5.2]
C	0.080[2.03]	0.107[2.72]
D	0.028[0.71]	0.034[0.86]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. DESIGNED FOR PHOTO FLASH APPLICATION
3. BEVELED ROUND CHIP, AVALANCHE OPERATION
4. CASE: D0-41 TRANSFER MOLDED
5. DIMENSIONS IN INCHES AND (MILLIMETERS)
6. POLARITY: INDICATED BY CATHODE BAND
7. WEIGHT : 0.34 GRAMS
8. TERMINALS : PER MIL-STD-202, METHOD 208
9. ROHS

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

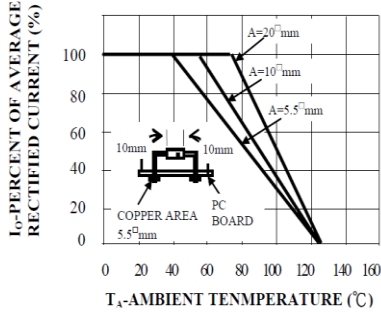
RATINGS	SYMBOL	VALUE	UNITS
AVERAGE FORWARD RECTIFIED CURRENT @ L=10mm TA=55°C	IO	0.5	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	CJ	15	pF
MAXIMUM REVERSE CURRENT @ 25°C	IR	5	uA
MAXIMUM REVERSE CURRENT @ 100°C	IR	50	uA

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. AVERAGE FORWARD RECTIFIED CURRENT @ L=10mm TA=55°C
3. MAXIMUM FORWARD VOLTAGE AT IO DC
4. IFSM @ NOM-REPETITIVE PEAK FORWARD SURGE CURRENT, 8.3ms HALF SINE-WAVE

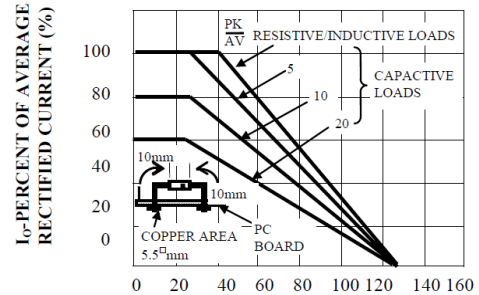
PART NUMBER	MAX RECURRENT PK REV VOLTAGE VRRM (V)	MAX RMS VOLTAGE VRMS (V)	MAX DC BLOCKING VOLTAGE VDC (V)	MAX FWD VOLTAGE VF (V)
FR05-10	1000	700	1000	2
FR05-15	1500	1050	1500	2
FR05-16	1600	1120	1600	2
FR05-18	1800	1260	1800	3
FR05-20	2000	1400	2000	6

RATING AND CHARACTERISTIC CURVES

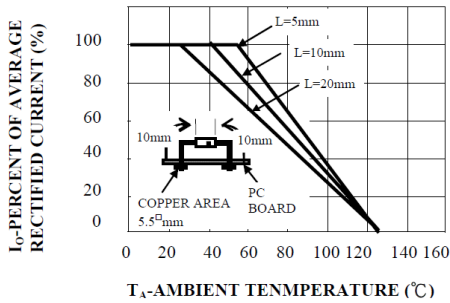
**FIG. 1-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



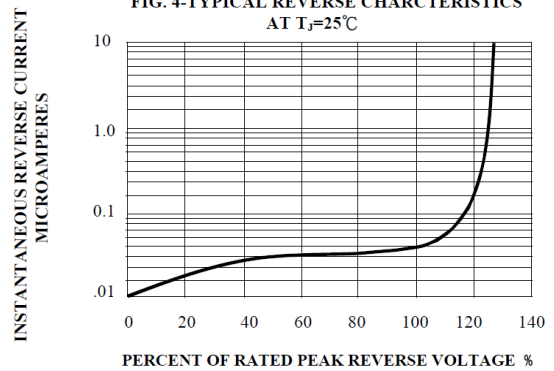
**FIG. 2-MAXIMUM CURRENT RATING
CAPACITIVE LOAD,
10mm LEAD LENGTHS**



**FIG. 3-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD**



**FIG. 4-TYPICAL REVERSE CHARACTERISTICS
AT T_J=25°C**



**FIG. 5-MAXIMUM FORWARD SURGE
VS NUMBER OF CYCLES**

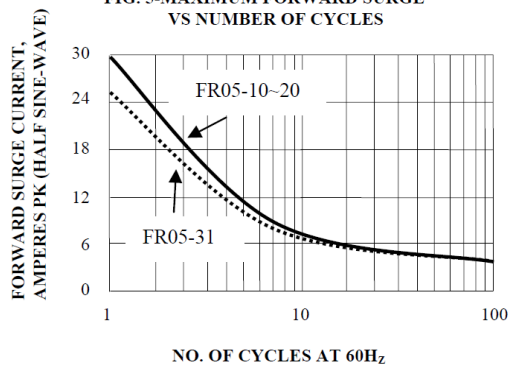
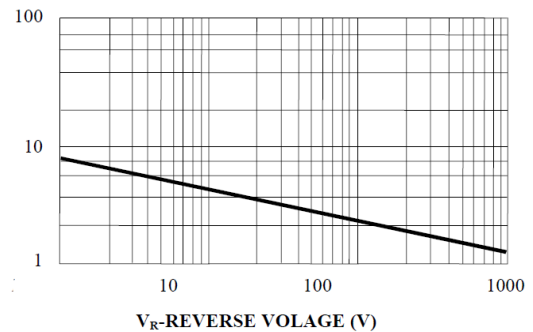


FIG. 6-TYPICAL JUNCTION CAPACITANCE





FR05-10 THRU FR05-31 SPECIFICATIONS

Rev. A

FIG. 7-TYPICAL FORWARD CHARACTERISTICS

