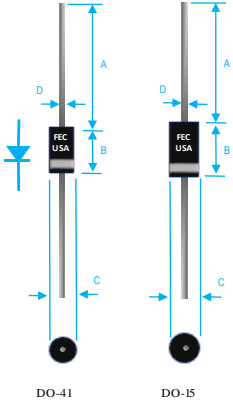


FAST RECOVERY HIGH VOLTAGE RECTIFIER



Value In[mm] DO-41		
Dim.	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]

Value In[mm] DO-15		
Dim.	Min.	Max.
A	1.000[25.40]	→
B	0.230[5.84]	0.300[7.62]
C	0.104[2.64]	0.140[3.56]
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: TRANSFER MOLDED D0-15/D0-41
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	0.2	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	25	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	CJ	4	pF
MAXIMUM REVERSE CURRENT @ 25°C	IR	5	uA
MAXIMUM REVERSE RECOVERY TIME	TRR	500	nS

1. AVERAGE FORWARD RECTIFIED CURRENT @ L=10mm TA=55°C
2. IFSM @ NOM-REPETITIVE PEAK FORWARD SURGE CURRENT, 8.3ms HALF SINE-WAVE
3. MAXIMUM FORWARD VOLTAGE AT IO DC

PART NUMBER	MAX RECURRENT PK REV VOLTAGE VRRM (V)	MAX RMS VOLTAGE VRMS (V)	MAX DC BLOCKING VOLTAGE VDC (V)	MAXIMUM FORWARD VOLTAGE VF (V)	PK FWD SURGE CURRENT IFSM (A)
FR02-25	2500	1750	2500	6	25
FR02-30	3000	2100	3000	6	25
FR02-35	3500	2450	3500	8	25
FR02-40	4000	2800	4000	8	25
FR02-45	4500	3150	4500	12	25
FR02-50	5000	3500	5000	12	20
FR02-60	6000	4200	6000	12	20

RATING AND CHARACTERISTIC CURVES

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

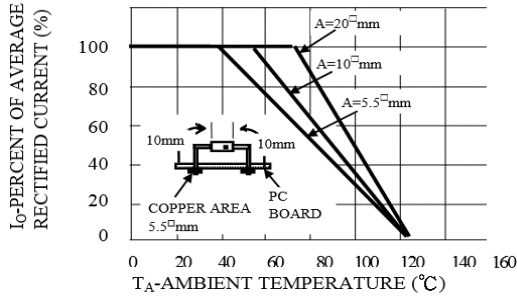


FIG. 2-MAXIMUM CURRENT RATING
CAPACITIVE LOAD,
10mm LEAD LENGTHS

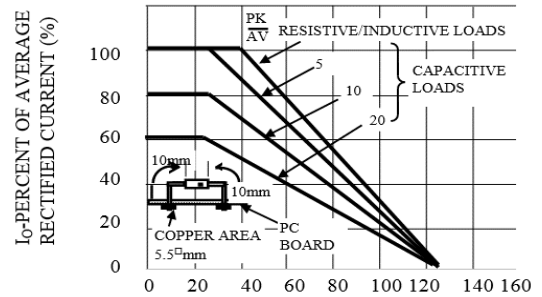


FIG. 3-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD

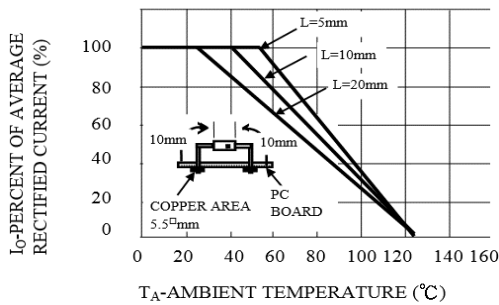


FIG. 4-TYPICAL REVERSE CHARACTERISTICS
AT Tj=25°C

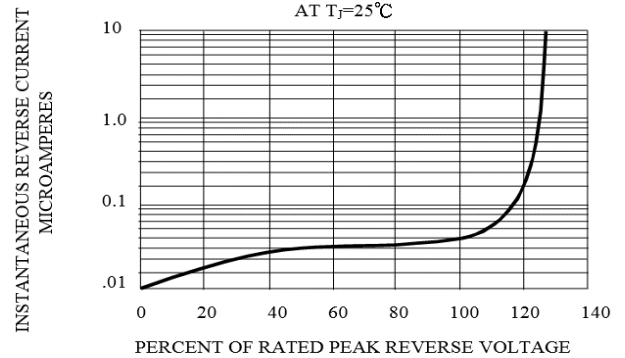


FIG. 5-MAXIMUM FORWARD SURGE
VS NUMBER OF CYCLES

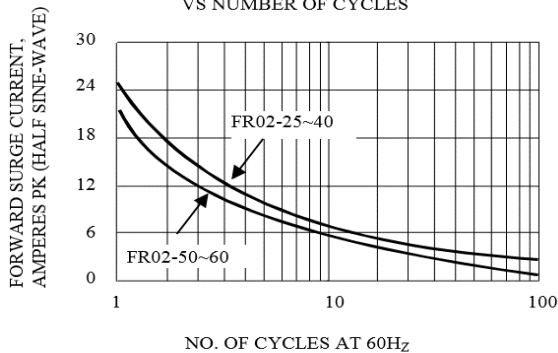
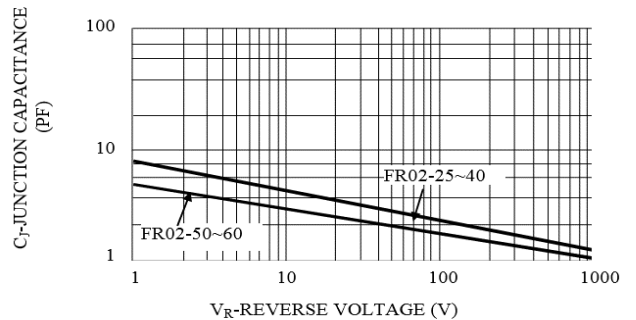


FIG. 6-TYPICAL JUNCTION CAPACITANCE





FR02-25 THRU FR02-60 SPECIFICATIONS

Rev. A

FIG. 7-TYPICAL FORWARD
C CHARACTERISTICS

