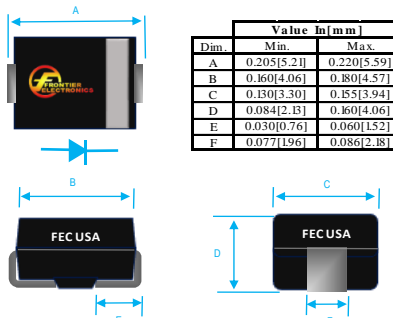


3A SUPER FAST RECOVERY SURFACE MOUNT RECTIFIER

 <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">Dim</th> <th colspan="2">Value in mm</th> </tr> <tr> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0.205[5.21]</td> <td>0.220[5.59]</td> </tr> <tr> <td>B</td> <td>0.160[4.06]</td> <td>0.180[4.57]</td> </tr> <tr> <td>C</td> <td>0.130[3.30]</td> <td>0.155[3.94]</td> </tr> <tr> <td>D</td> <td>0.084[2.13]</td> <td>0.160[4.06]</td> </tr> <tr> <td>E</td> <td>0.030[0.76]</td> <td>0.060[1.52]</td> </tr> <tr> <td>F</td> <td>0.077[1.96]</td> <td>0.086[2.18]</td> </tr> </tbody> </table>	Dim	Value in mm		Min	Max	A	0.205[5.21]	0.220[5.59]	B	0.160[4.06]	0.180[4.57]	C	0.130[3.30]	0.155[3.94]	D	0.084[2.13]	0.160[4.06]	E	0.030[0.76]	0.060[1.52]	F	0.077[1.96]	0.086[2.18]	PRODUCT FEATURES <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. GLASS PASSIVATED CHIP JUNCTION 3. BUILT-IN STRAIN RELIEF 4. LOW PROFILE 5. SUPER FAST SWITCHING 6. CASE: MOLDED PLASTIC, DO-214AA (SMB) 7. POLARITY: INDICATED BY CATHODE BAND 8. WEIGHT : 0.21 GRAMS 9. ROHS
Dim		Value in mm																						
	Min	Max																						
A	0.205[5.21]	0.220[5.59]																						
B	0.160[4.06]	0.180[4.57]																						
C	0.130[3.30]	0.155[3.94]																						
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F	0.077[1.96]	0.086[2.18]																						

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
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT @ TL=90°C	IO	3	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	100	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	CJ	25	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	Rqja	20	°C/W
MAXIMUM REVERSE CURRENT @ 25°C	IR	10	uA
MAXIMUM REVERSE CURRENT @ 100°C	IR	100	uA
MAXIMUM REVERSE RECOVERY TIME	TRR	35	nS

1. Cj MEASURED @ 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. THERMAL RESISTANCE FROM JUNCTION TO AMBIENT AND JUNCTION TO LEAD PCB MOUNTED ON 0.3x0.3"(8.0x8.0mm) COPPER PAD AREAS
3. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A
4. MAXIMUM FORWARD VOLTAGE @ Io DC

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)	MARKING
SFS3A	50	35	50	0.95	SF3A
SFS3B	100	70	100	0.95	SF3B
SFS3D	200	140	200	0.95	SF3D
SFS3E	300	210	300	1.25	SF3E
SFS3G	400	280	400	1.25	SF3G
SFS3G	500	350	500	1.85	SF3H
SFS3J	600	420	600	1.85	SF3J

RATING AND CHARACTERISTIC CURVES

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

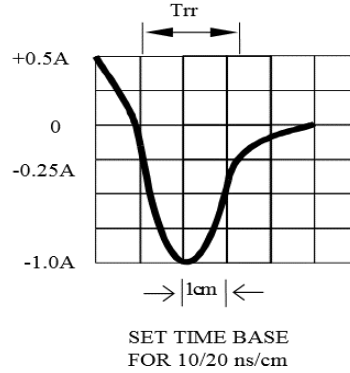
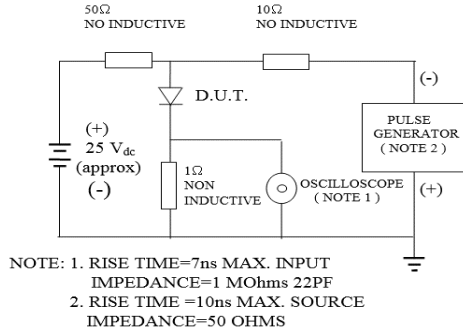


FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

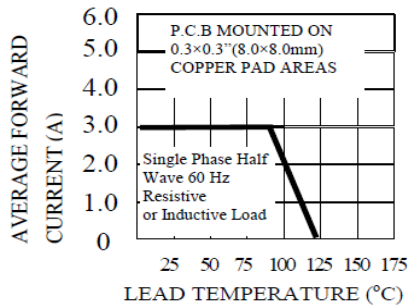


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

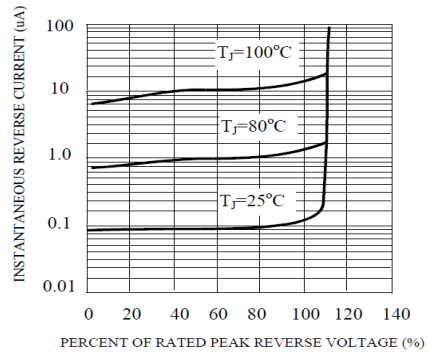


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

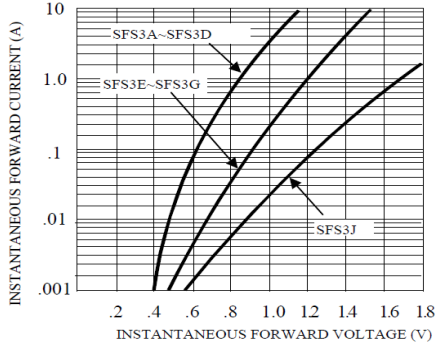
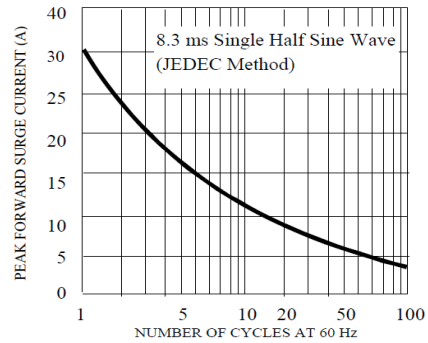


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





SFS3A THRU SFS3J SPECIFICATIONS

Rev. A

