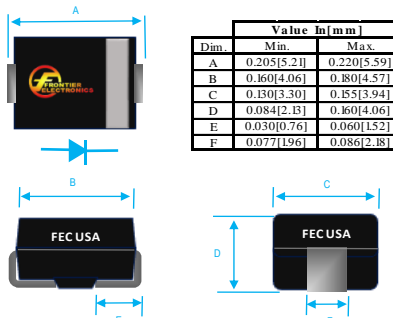


2A SUPER FAST RECOVERY SURFACE MOUNT RECTIFIER

 <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]	<h3>PRODUCT FEATURES</h3> <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 : 0.093 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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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	2	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	50	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

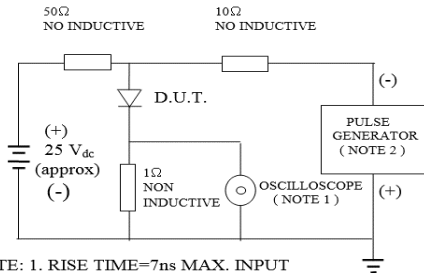
3. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A

4. MAXIMUM FORWARD VOLTAGE @ Io DC

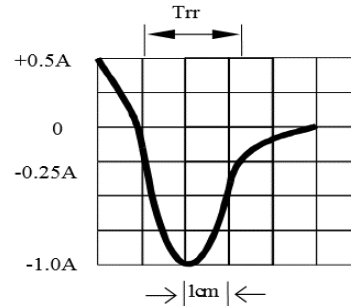
PART NUMBER	MAX RECURRENT PK REV VOLTAGE VRRM (V)	MAX RMS VOLTAGE VRMS (V)	MAX DC BLOCKING VOLTAGE VDC (V)	MAX FWD VOLTAGE VF (V)	MARKING
SFS2A	50	35	50	0.95	SF2A
SFS2B	100	70	100	0.95	SF2B
SFS2D	200	140	200	0.95	SF2D
SFS2E	300	210	300	1.25	SF2E
SFS2G	400	280	400	1.25	SF2G
SFS2G	500	350	500	1.85	SF2H
SFS2J	600	420	600	1.85	SF2J

RATING AND CHARACTERISTIC CURVES

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



NOTE: 1. RISE TIME=7ns MAX. INPUT IMPEDANCE=1 MOhms 22PF
2. RISE TIME =10ns MAX. SOURCE IMPEDANCE=50 OHMS



SET TIME BASE FOR 10/20 ns/cm

FIG. 2-TYPICAL FORWARD CURRENT DERATING CURVE

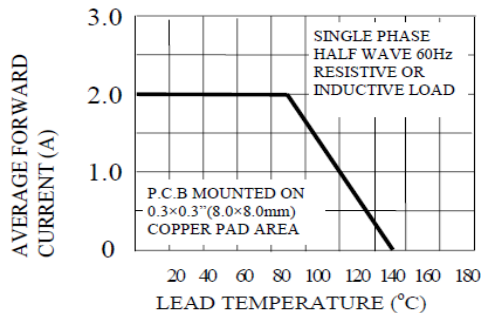


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

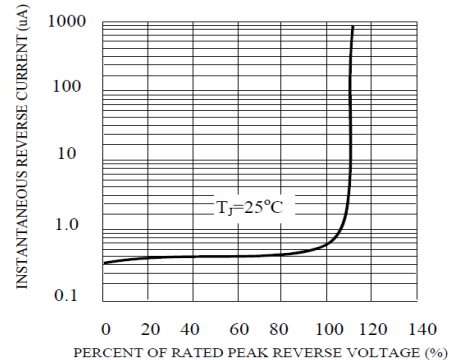


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

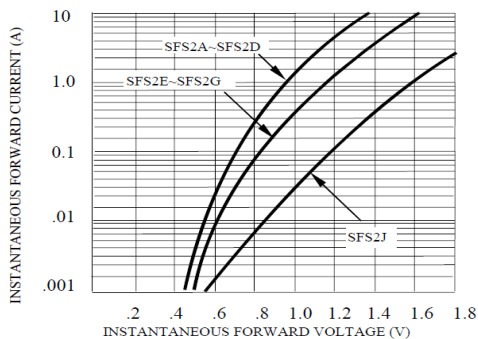
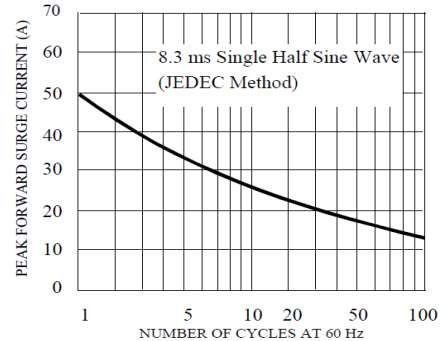


FIG. 5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





SFS2A THRU SFS2J SPECIFICATIONS

Rev. A

