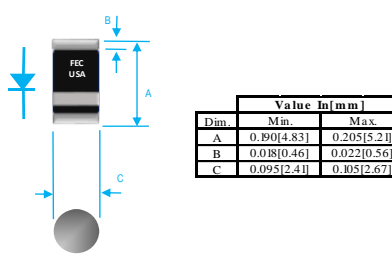


1A SURFACE MOUNT FAST RECOVERY RECTIFIERS

 <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Value In(mm)</th> </tr> <tr> <th>Dim.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0.205[5.21]</td> </tr> <tr> <td>B</td> <td>0.022[0.56]</td> </tr> <tr> <td>C</td> <td>0.105[2.67]</td> </tr> </tbody> </table>	Value In(mm)		Dim.	Max.	A	0.205[5.21]	B	0.022[0.56]	C	0.105[2.67]	PRODUCT FEATURES <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. GLASS PASSIVATED CHIP JUNCTION 3. FAST SWITCHING 4. CASE: TRANSFER MOLDED, MELF 5. DIMENSIONS IN INCHES AND (MILLIMETERS) 6. POLARITY: INDICATED BY CATHODE BAND 7. WEIGHT : 0.135 GRAMS 8. TERMINALS : PER MIL-STD-750, METHOD 2026 9. ROHS
Value In(mm)											
Dim.	Max.										
A	0.205[5.21]										
B	0.022[0.56]										
C	0.105[2.67]										

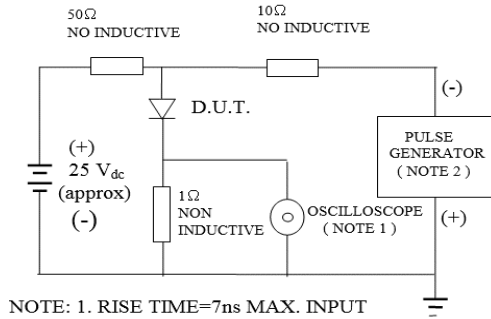
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO + 150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT @ TL=75°C	IO	1	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	IFSM	30	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	CJ	15	pF
MAXIMUM FORWARD VOLTAGE	VF	1.3	V
MAXIMUM REVERSE CURRENT @ 25°C	IR	5	uA
MAXIMUM REVERSE RECOVERY TIME	TRR	150	nS

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.
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)	TYPICAL THERMAL RESISTANCE Rqjc(°C/W)
SM4933	50	35	50	
SM4934	100	70	100	
SM4935	200	140	200	
SM4936	400	280	400	50
SM4937	600	420	600	50

RATING AND CHARACTERISTIC CURVES



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

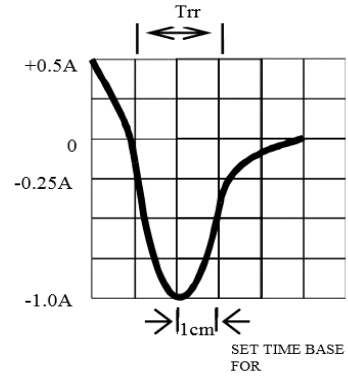


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

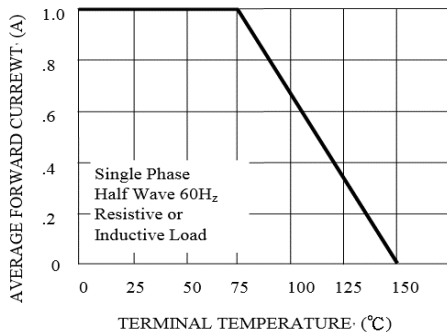


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

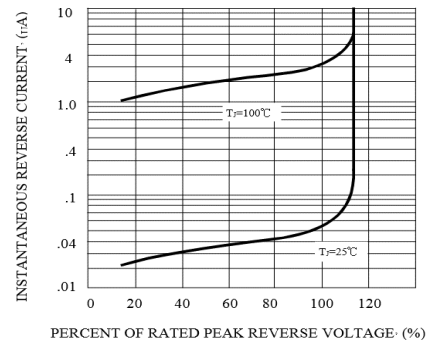


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

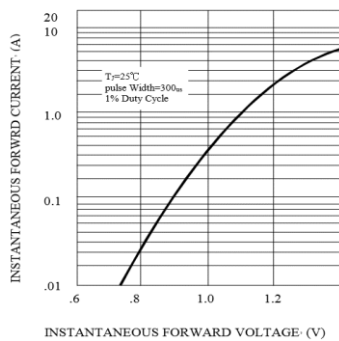
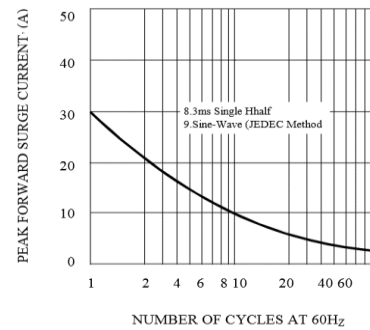


FIG. 5 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT





SM4933 THRU SM4937 SPECIFICATIONS

Rev. A

FIG. 6 - TYPICAL JUNCTION CAPACITANCE

