



**SS32F-SS320F Schottky Rectifier**

**Feature**

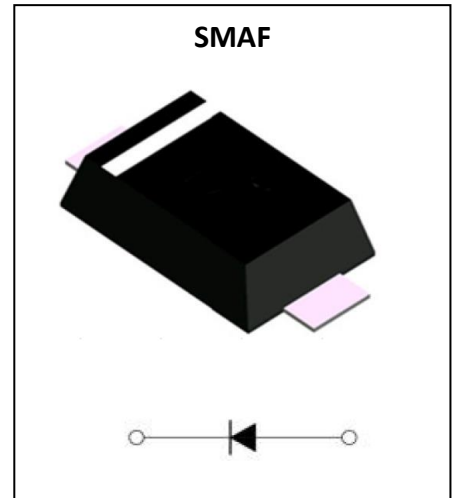
- High current capability
- Low VF
- High surge current capability

**Application**

- Rectifier

**Marking**

- **SS3X**  
X: From 2 To 20



**ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C unless otherwise noted)**

Parameter	Symbol	SS3									Unit
		2F	3F	4F	5F	6F	8F	10F	15F	20F	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Average Forward Current (60HZ Half-sine wave, Resistance load)	I <sub>F(AV)</sub>	3.0									A
Non-repetitive Peak Forward Surge Current (60Hz Half-sine wave ,1 cycle ,T <sub>a</sub> =25°C)	I <sub>FSM</sub>	70									A
Junction Temperature	T <sub>J</sub>	-55 ~ +125			-55 ~ +150						°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150									°C
Air Model	V <sub>ESD</sub>	±15									KV
Contact Model		±8									KV

**ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C unless otherwise noted)**

Parameter	Symbol	Test Condition	SS3								Unit
			2F	3F	4F	5F	6F	8F	10F	15F	
Peak Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =3A	0.55		0.70		0.85		0.95		V
Peak Reverse Current	I <sub>RRM1</sub>	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25°C		0.5		0.1				mA
	I <sub>RRM2</sub>		T <sub>a</sub> =100°C		10		5				mA
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	Between junction and ambient	55								°C /W

**Notes:**

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

**Typical Characteristics**

FIG.1: FORWARD CURRENT DERATING CURVE

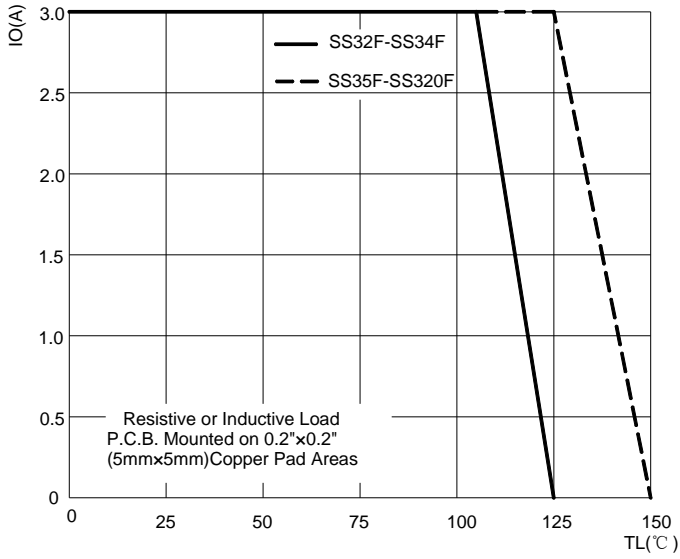


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

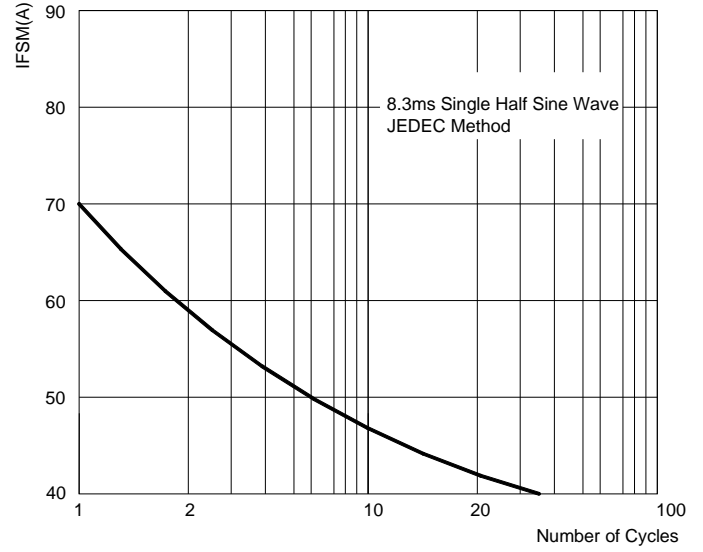


FIG.3: TYPICAL FORWARD CHARACTERISTICS

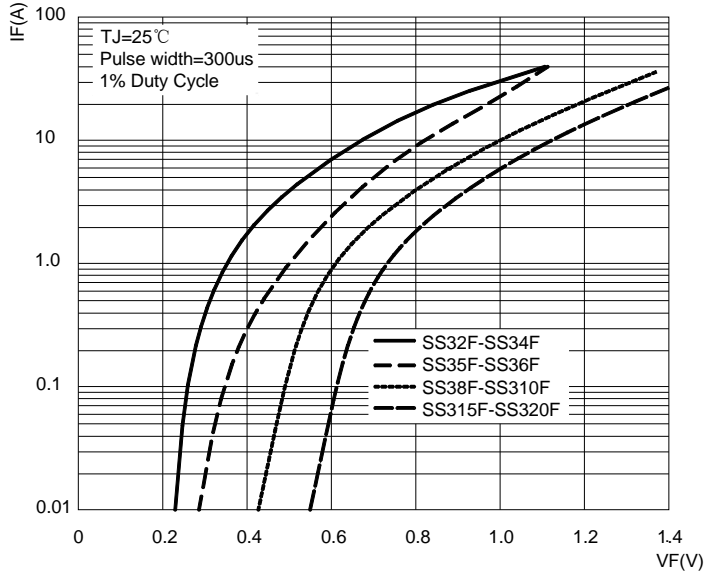
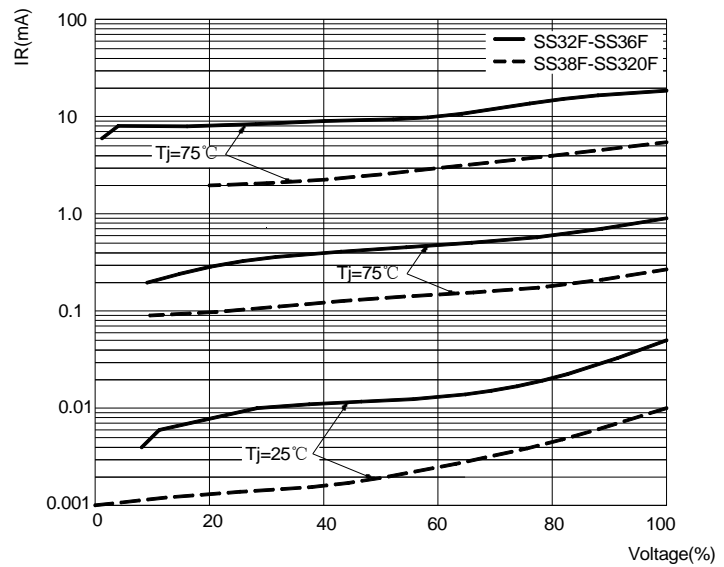
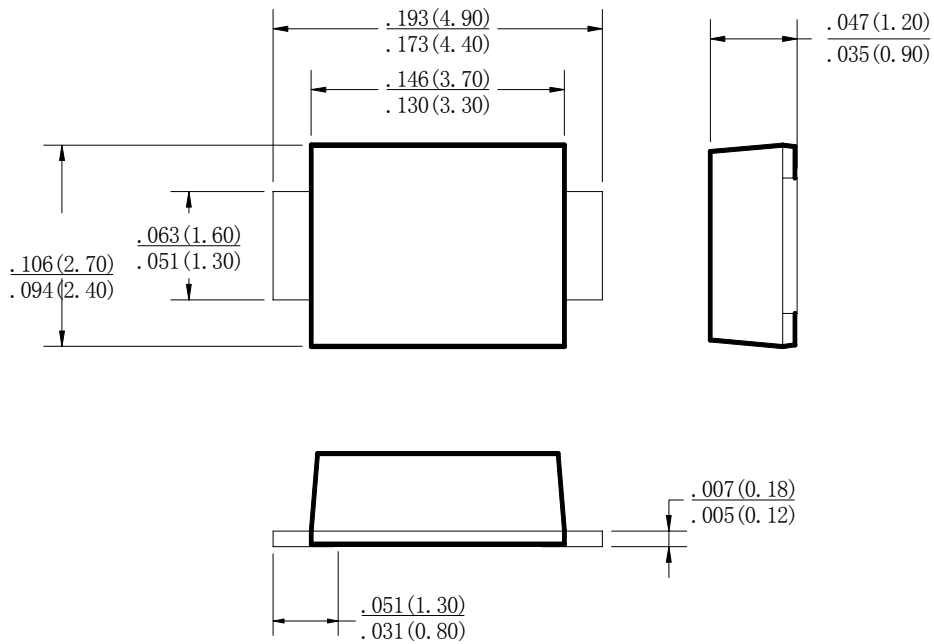


FIG.4: TYPICAL REVERSE CHARACTERISTICS

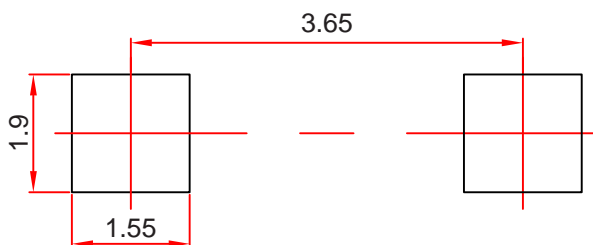


## Package Outline Dimensions



Dimensions in inches and (millimeters)

## Package Outline Dimensions



### Note:

1. Controlling dimension: in millimeters.
2. General tolerance:  $\pm 0.05\text{mm}$ .
3. The pad layout is for reference purposes only.