



**SS32B-SS320B Schottky Rectifier**

**Feature**

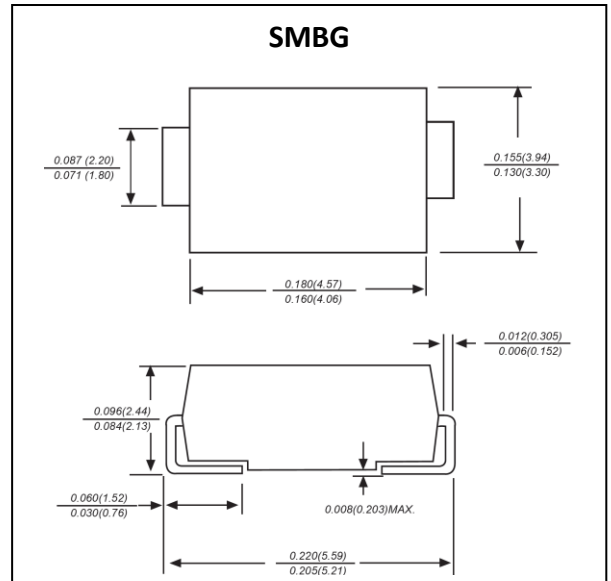
- High current capability
- Low VF
- High surge current capability

**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
		2	3	4	5	6	8	10	15	20	
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, TL(Fig.1))	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

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

Parameter	Symbol	Test Condition	SS3							Unit	
			2	3	4	5	6	8	10		15
Peak Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =1A	0.55		0.70		0.85		0.95		V
Peak Reverse Current	I <sub>RRM1</sub>	V <sub>RM</sub> =V <sub>RRM</sub>	0.5			0.1				mA	
	I <sub>RRM2</sub>		10		5.0					mA	
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	Between junction and ambient	55							°C/W	
	R <sub>θJ-L</sub>	Between junction and terminal	17							°C/W	

**Notes:**

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

**Typical Characteristics**

FIG.1: FORWARD CURRENT DERATING CURVE

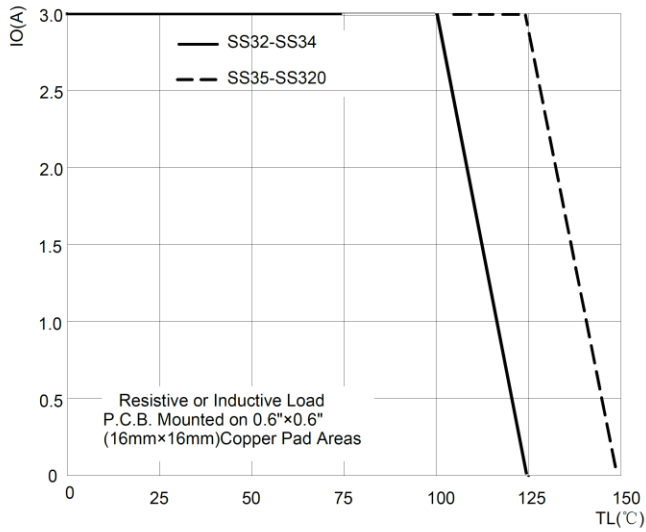


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

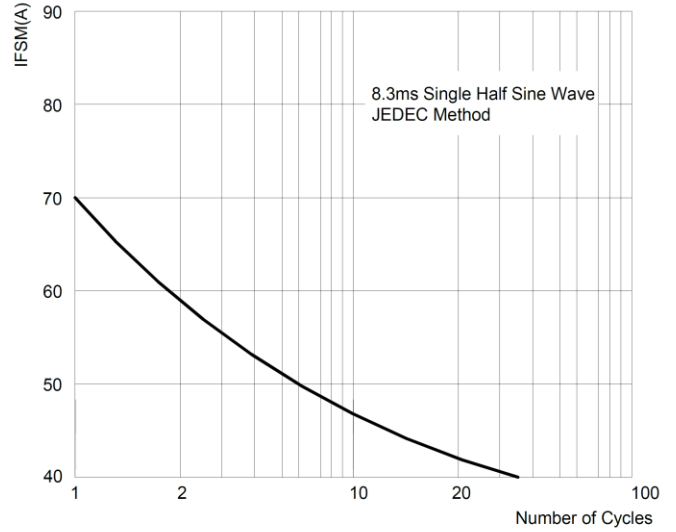


FIG.3: TYPICAL FORWARD CHARACTERISTICS

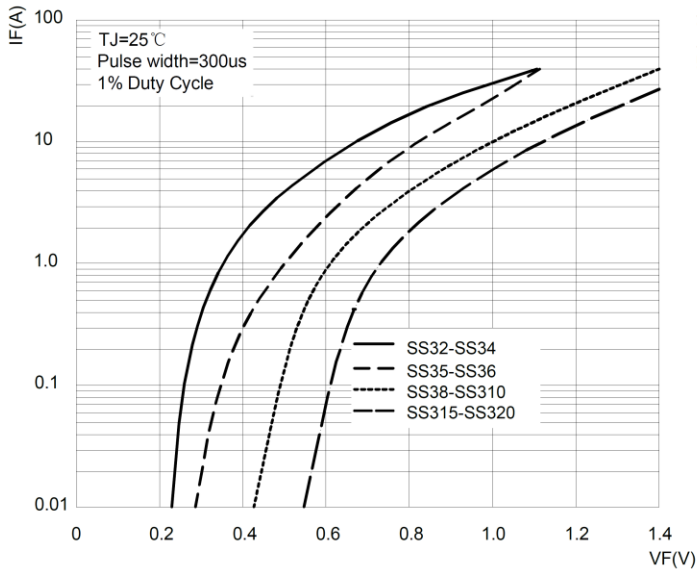
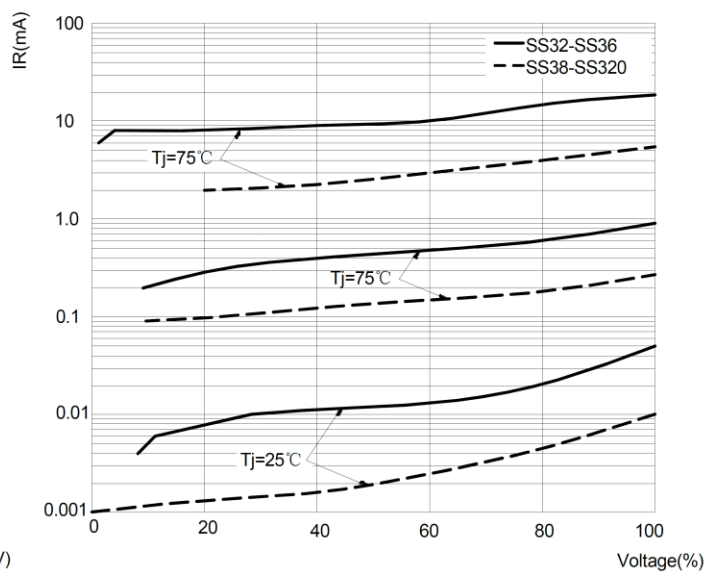


FIG.4: TYPICAL REVERSE CHARACTERISTICS



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