



**SS32BY-SS320BY Schottky Rectifier**

**Feature**

- Low profile package
- Low power losses, high efficiency
- High forward surge capability

**Application**

- Rectifier

**Marking**

- SS3XB
- X: From 2 To 20



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

Parameter	Symbol	SS3							Unit
		2BY	4BY	6BY	8BY	10BY	15BY	20BY	
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	40	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	28	42	56	70	105	140	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	3.0							A
Non-repetitive Peak Forward Surge Current, 8.3ms Single Half-sinewave. T <sub>j</sub> =25°C	I <sub>FSM</sub>	80							A
Junction Temperature	T <sub>J</sub>	-55 ~ +125			-55 ~ +150				°C
Storage Temperature	T <sub>STG</sub>	-55 ~ +150							°C

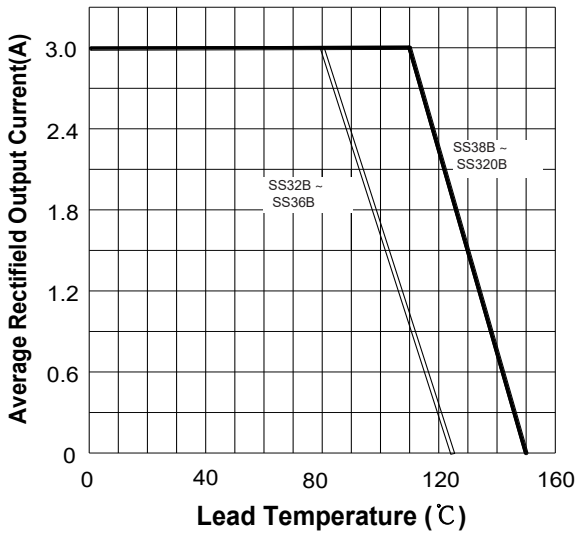
**ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C unless otherwise noted)**

Parameter	Symbol	Test Condition	SS3						Unit
			2BY	4BY	6BY	8BY	10BY	15BY	
Peak Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =3A	0.55		0.70	0.85		0.90	V
Peak Reverse Current	I <sub>RRM1</sub>	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>A</sub> =25°C			0.1			mA
	I <sub>RRM2</sub>		T <sub>A</sub> =100°C			5			mA
Typical Thermal Resistance <sup>1</sup>	R <sub>θJ-A</sub>	Between junction and ambient	55						°C/W
	R <sub>θJ-L</sub>	Between junction and terminal	20						°C/W

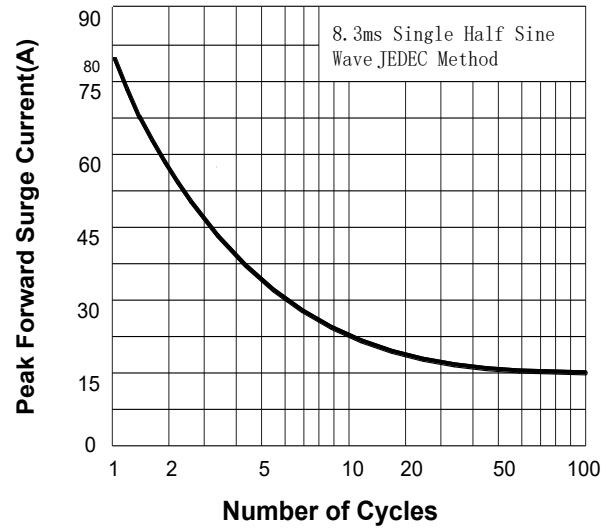
**Notes :** Units mounted on P.C.B. with 5.0X5.0 mm land areas

**Typical Characteristics**

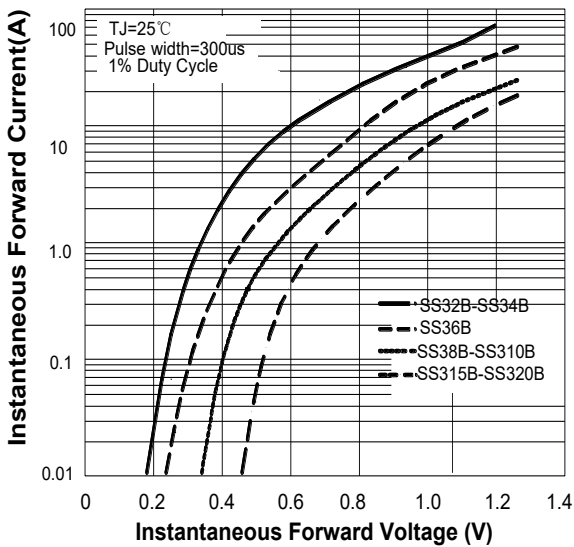
**Fig.1-Forward Current Derating Curve**



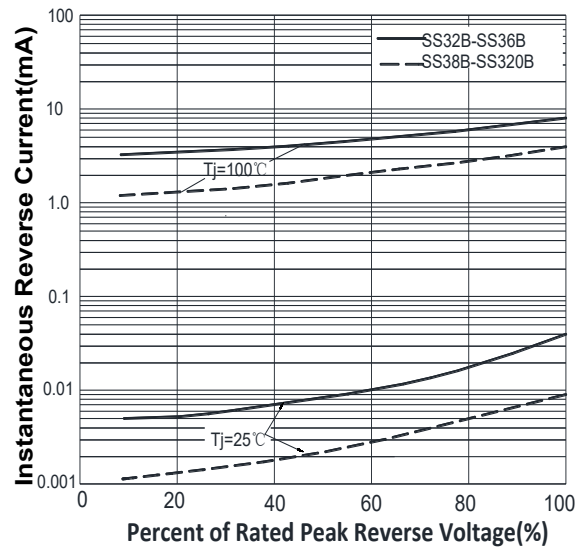
**Fig.2- Surge Current Derating Curve**



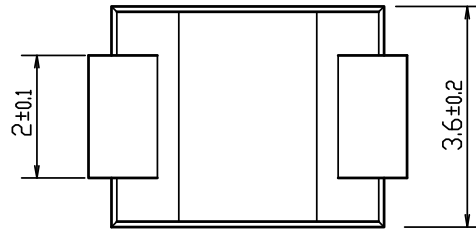
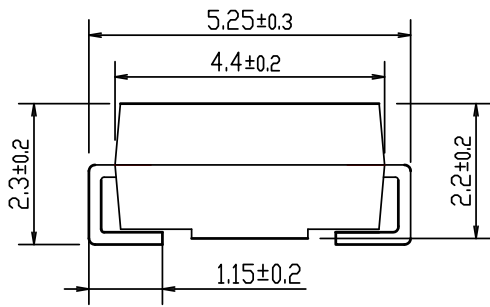
**Fig.3- Typical Forward Voltage Characteristic**



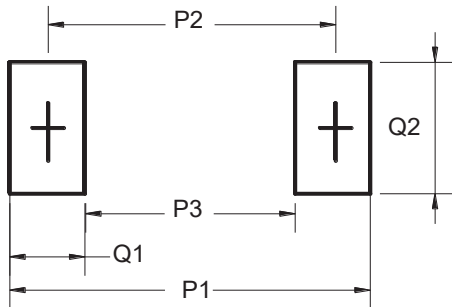
**Fig.4- Typical Reverse Characteristic**



## SMB Package Outline Dimensions



## Mounting Pad Layout(unit:mm)



Dim	Millimeters
P1	6.80
P2	4.30
P3	1.80
Q1	2.50
Q2	2.30

**Attention:**

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