

# SS32B THRU SS320B

## Schottky Rectifier

### Features

- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliability
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C



### Typical Application

For use in switching power supplies,converters, freewheeling diodes and reverse battery protection.



### Mechanical Data

- Package: DO-214AA(SMB)  
Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SS3								
				2B	3B	4B	5B	6B	8B	10B	15B	20B
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		20	30	40	50	60	80	100	150	200
Average Forward Current	I <sub>F(AV)</sub>	A	60Hz Half-sine wave, Resistance load, TL=100℃	3.0								
Surge(Nonrepetitive)Forward Current	I <sub>FSM</sub>	A	60HZ Half-sine wave, 1 cycle, Ta=25℃	70								
Storage Temperature	T <sub>stg</sub>	℃		-55 ~ +150								
Junction Temperature	T <sub>j</sub>	℃		-55 ~ +125			-55 ~ +150					

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		SS3									
					2B	3B	4B	5B	6B	8B	10B	15B	20B	
Peak Forward Voltage	V <sub>FM</sub>	V	IF <sub>M</sub> =3.0A		0.5			0.70		0.85		0.90		
Peak Reverse Current	I <sub>RRM1</sub>	mA	V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25℃	0.5				0.1					
	Ta=100℃			10		5								
Thermal Resistance(Typical)	R <sub>θJ-A</sub>	℃/W	Between junction and ambient		55 <sup>1)</sup>									
	R <sub>θJ-L</sub>		Between junction and terminal		17 <sup>1)</sup>									

#### Notes:

<sup>1)</sup>Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm)copper pad areas

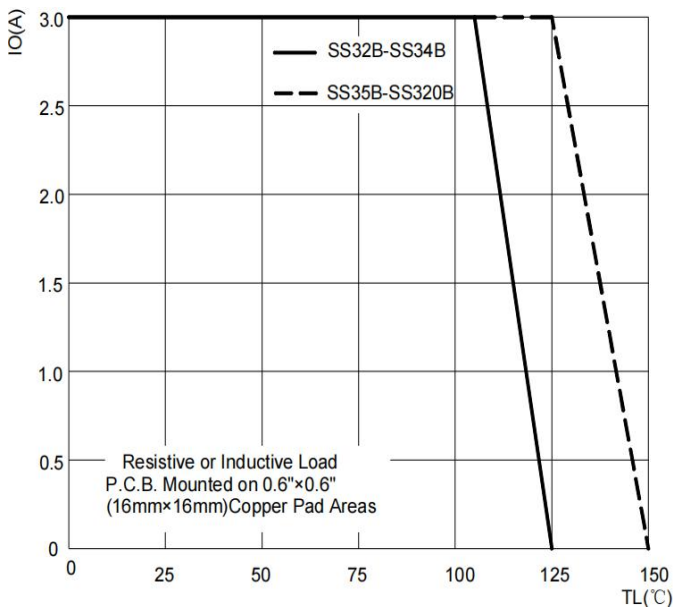


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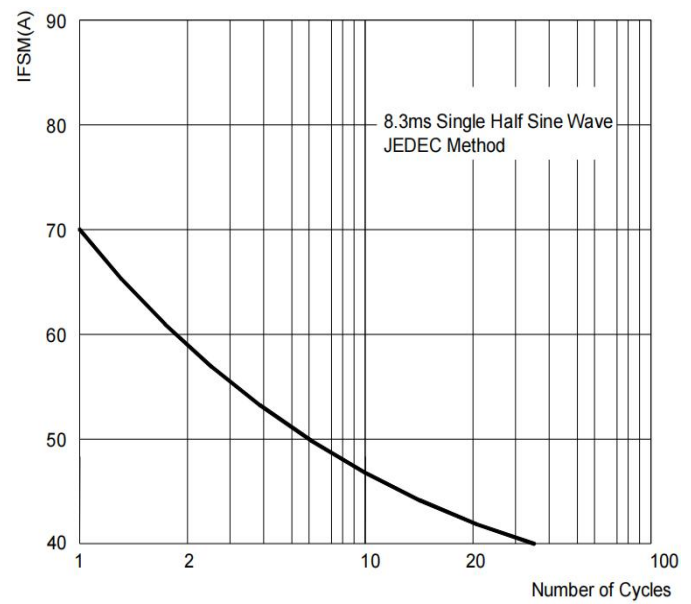
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### ■ Characteristics (Typical)

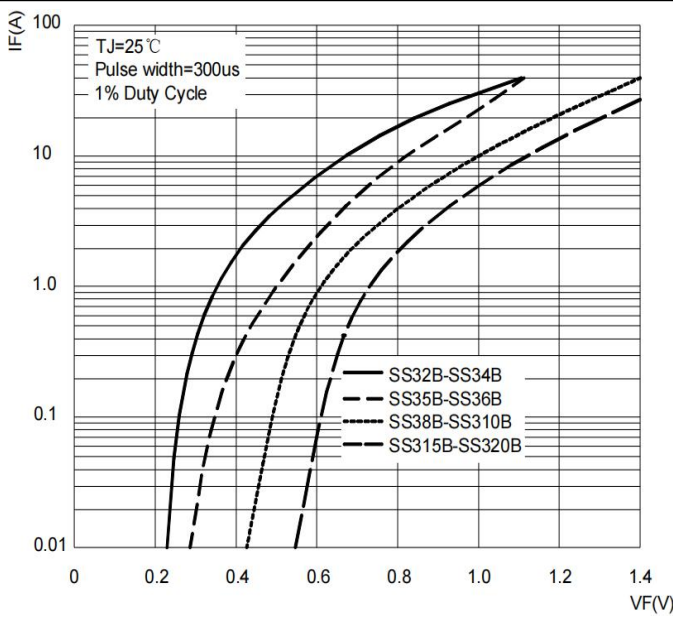
**FIG1: Forward Current Derating Curve**



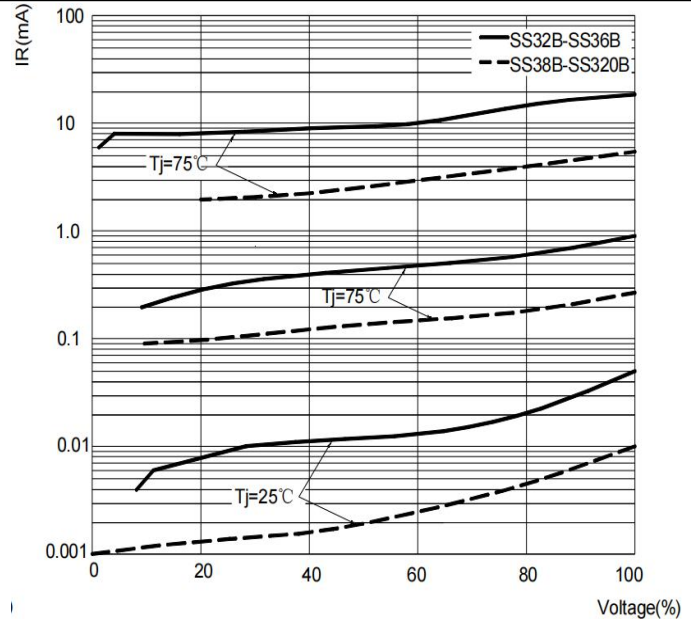
**FIG2: Maximum Non-Repetitive Forward Surge Current**



**FIG3: Typical Forward Characteristics**



**FIG4: Typical Reverse Characteristics**



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### Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32B ~ SS320B	DO-214AA(SMB)	3000	6000	48000	13" reel

### Outline Dimensions

