

SMB Plastic-Encapsulate Diodes

SS32B THRU SS320B Schottky Rectifier Diodes



• Features

- $I_{F(AV)}$ 3A
- V_{RRM} 20V-200V
- High surge current capability
- Polarity: Color band denotes cathode

• Applications

- Rectifier

SMB (DO-214AA)

• MAXIMUM RATINGS $(T_C=25^{\circ}\text{C})$

Item	Symbol	Unit	Test Conditions	SS3								
				2B	3B	4B	5B	6B	8B	10B	15B	20B
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	30	40	50	60	80	100	150	200
MaximumRMS Voltage	V _{RMS}	V		14	21	28	35	42	56	70	105	140
Average Forward Current	I _{F(AV)}	A	60Hz Half-sine wave, Resistance load	3.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	80								
Junction Temperature	T _J	℃		-55~+150								
Storage Temperature	T _{STG}	℃		-55 ~ +150								

• ELECTRICAL CHARACTERISTICS $(T_a=25^{\circ}\text{C})$

Item	Symbol	Unit	Test Condition		SS3								
					2B	3B	4B	5B	6B	8B	10B	15B	20B
Peak Forward Voltage	V _F	V	I _F =3.0A		0.55			0.70		0.85		0.95	
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	T _a =25°C	0.5					0.1			
	T _a =100°C			10					5.0				
Thermal Resistance	R _{θJ-A}	°C / W	Between junction and ambient		75								
	Between junction and terminal		27										
Juction Capacitance (Typical)	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		146			117		85		66	57

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on FR4 PCB double sided copper mini pad

• Ordering Information:

Part NO.	SS32B-SS320B
Marking	SS3**
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

• Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

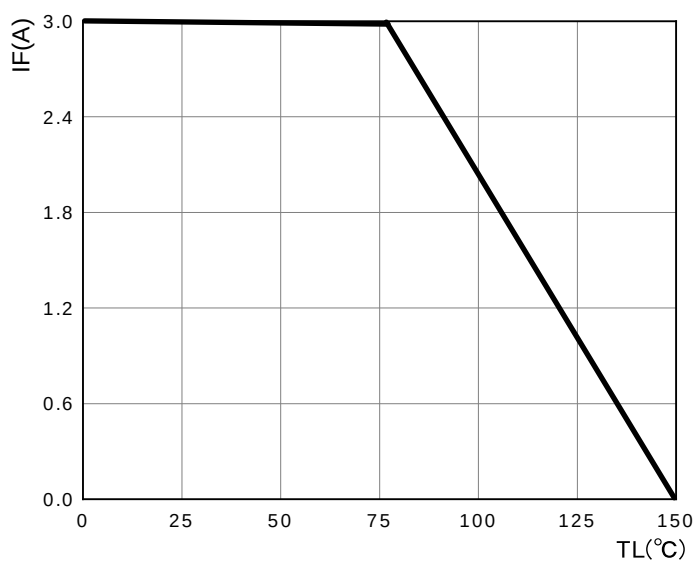
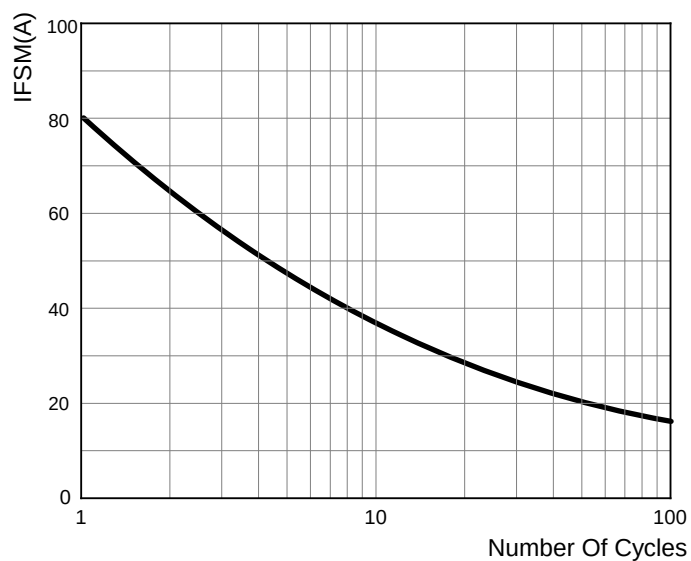
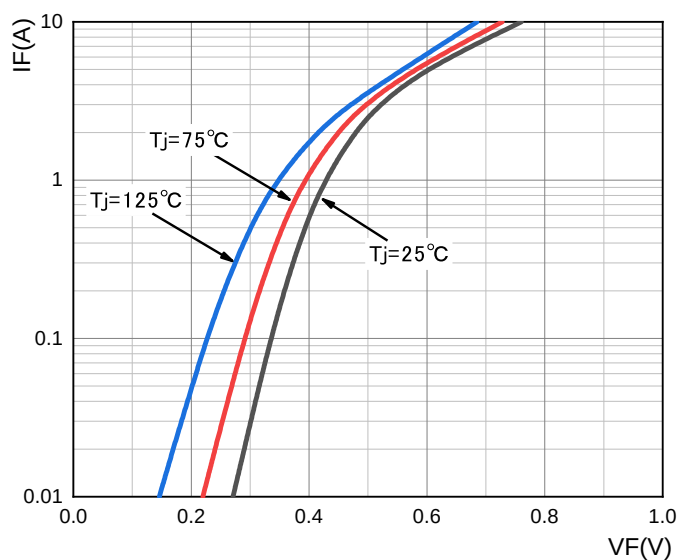


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



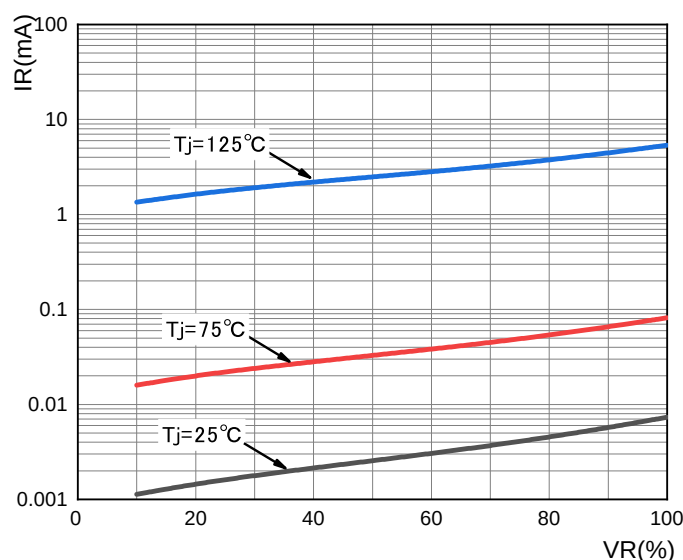
SS32B-SS34B

FIG.3: TYPICAL FORWARD CHARACTERISTICS



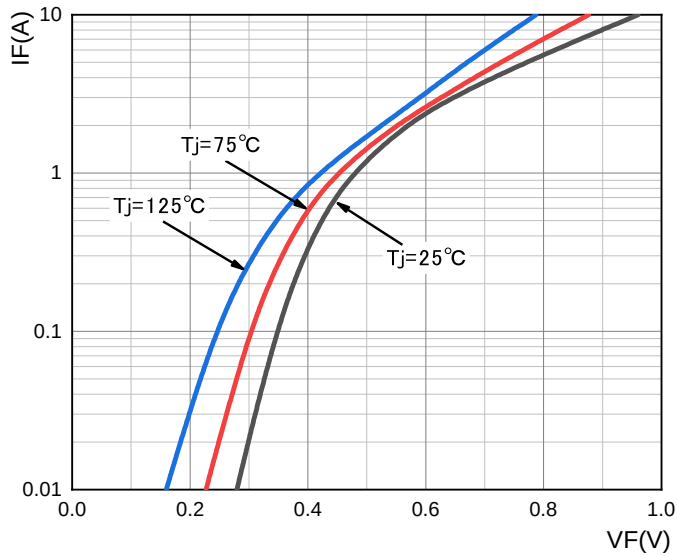
SS32B-SS34B

FIG.4: TYPICAL REVERSE CHARACTERISTICS



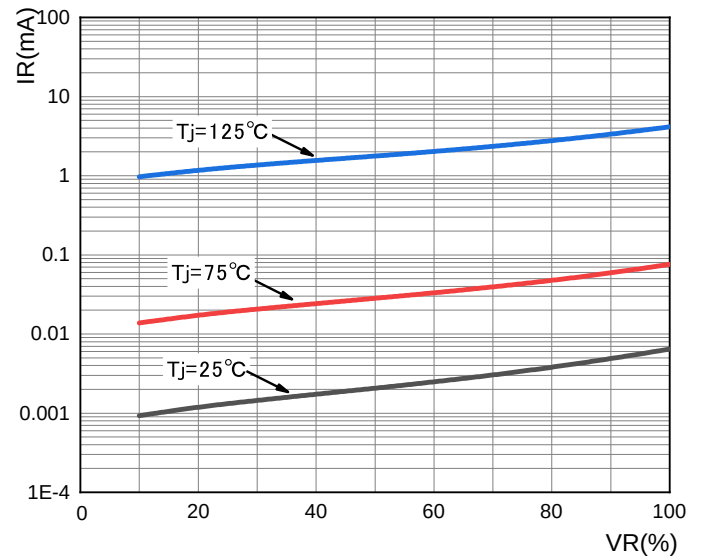
SS35B-SS36B

FIG.5: TYPICAL FORWARD CHARACTERISTICS



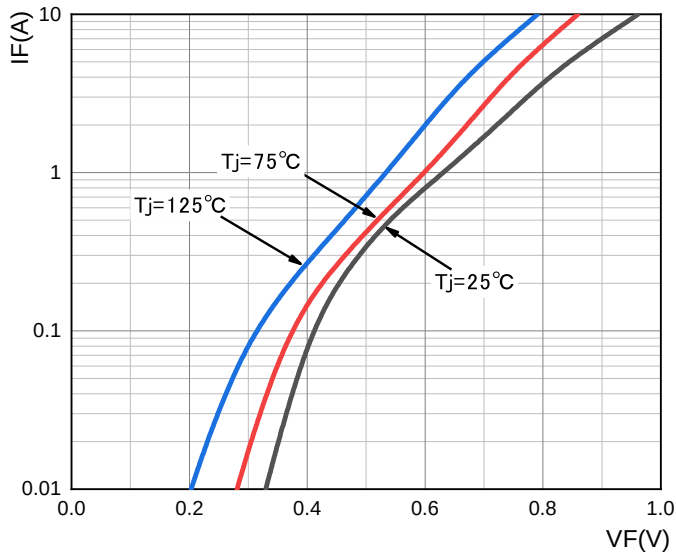
SS35B-SS36B

FIG.6: TYPICAL REVERSE CHARACTERISTICS



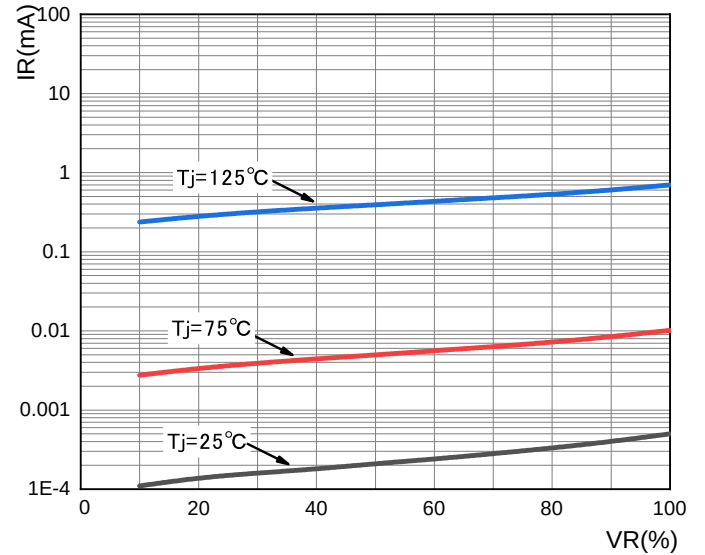
SS38B-SS310B

FIG.7: TYPICAL FORWARD CHARACTERISTICS



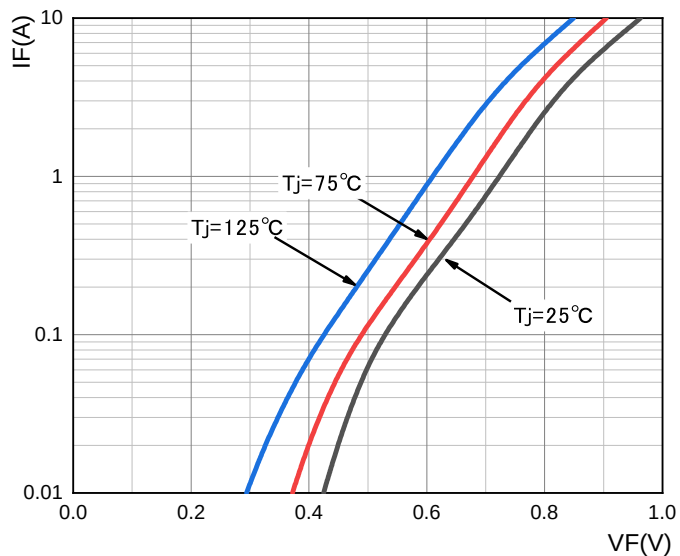
SS38B-SS310B

FIG.8: TYPICAL REVERSE CHARACTERISTICS



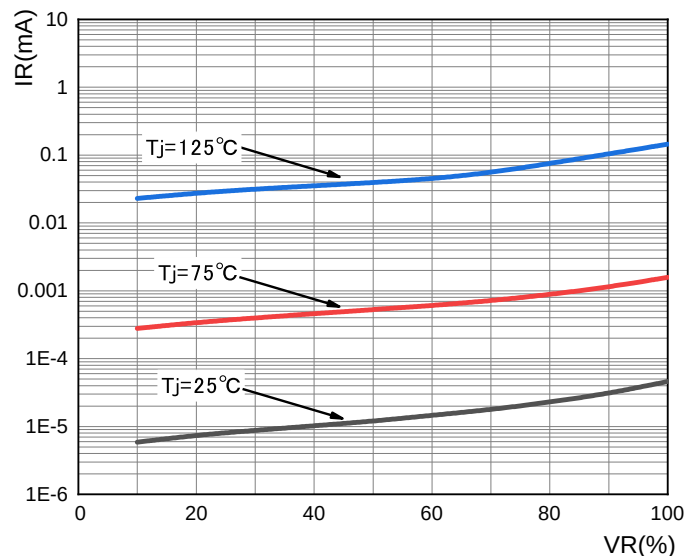
SS315B

FIG.9: TYPICAL FORWARD CHARACTERISTICS



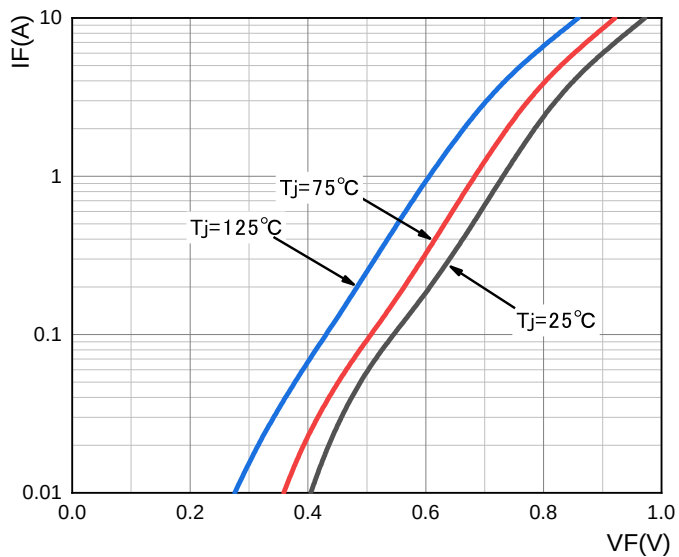
SS315B

FIG.10: TYPICAL REVERSE CHARACTERISTICS



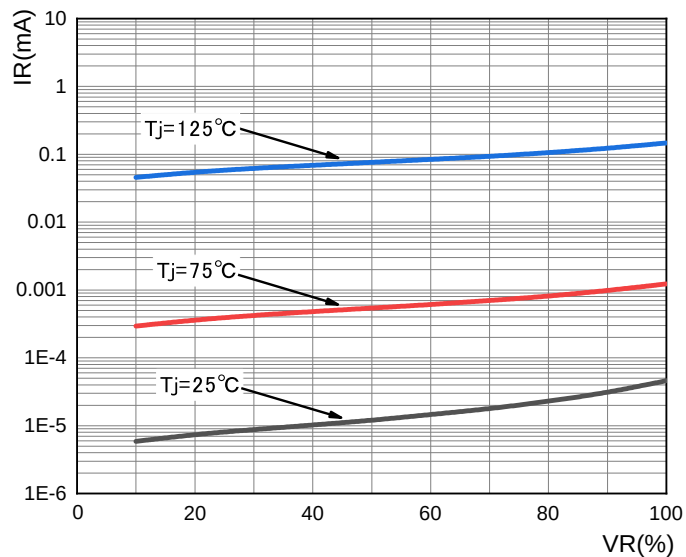
SS320B

FIG.11: TYPICAL FORWARD CHARACTERISTICS

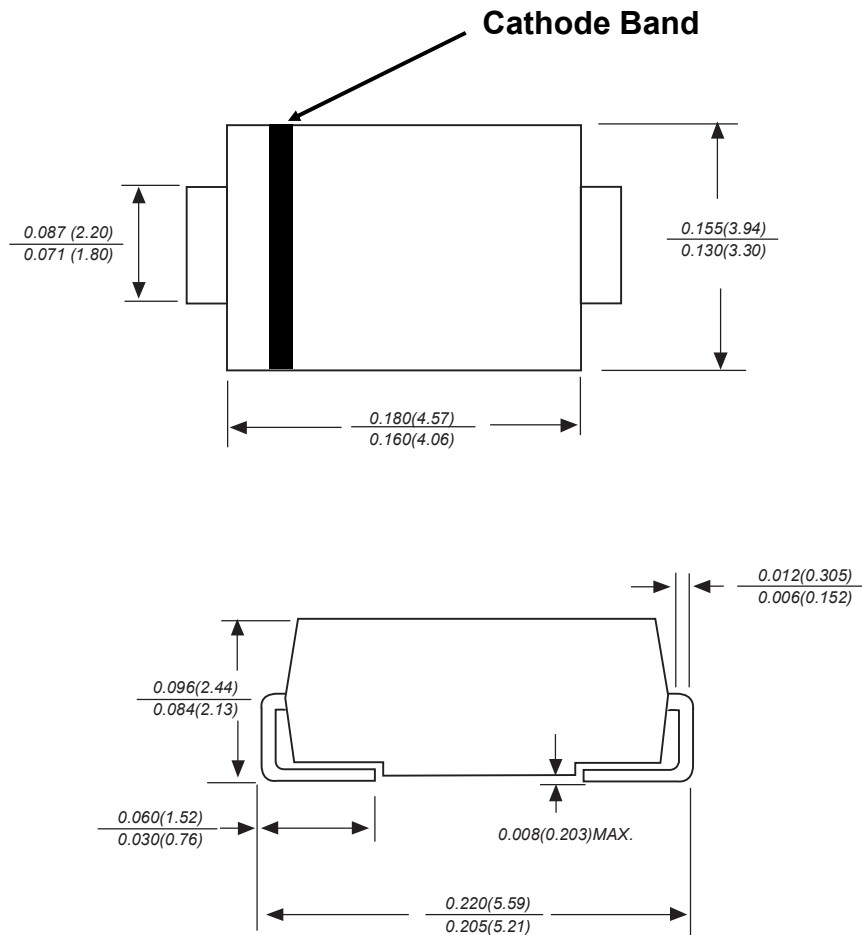


SS320B

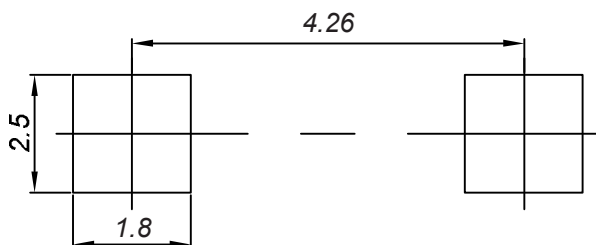
FIG.12: TYPICAL REVERSE CHARACTERISTICS



SMB Package Outline Dimensions



Dimensions in inches and (millimeters)



Note:

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