

SMB Plastic-Encapsulate Diodes

SS22B THRU SS220B Schottky Rectifier Diodes



• Features

- $I_{F(AV)}$ 2A
- 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	SS2								
				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	2.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	A	60Hz Half-sine wave, 1 cycle, Ta=25℃	50								
Junction Temperature	T _J	℃		-55~+125			-55~+150					
Storage Temperature	T _{STG}	℃		-55 ~ +150								

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

Item	Symbol	Unit	Test Condition		SS2								
					2B	3B	4B	5B	6B	8B	10B	15B	20B
Peak Forward Voltage	V _F	V	I _F =2.0A		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		88								
	R _{θJ-L}		Between junction and terminal		28								
Juction Capacitance (Typical)	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C		114			92		53		40	

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.	SS22B-SS220B
Marking	SS2**
Packing Information	REEL TAPE
Basic ordering unit (pcs)	3000

• Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

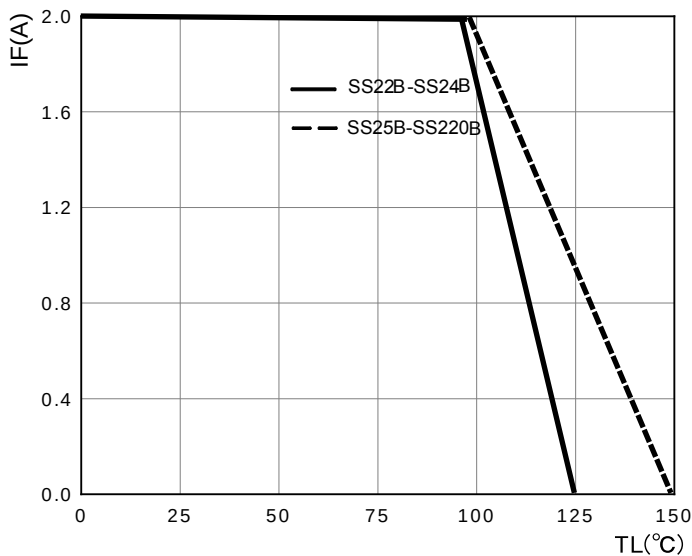
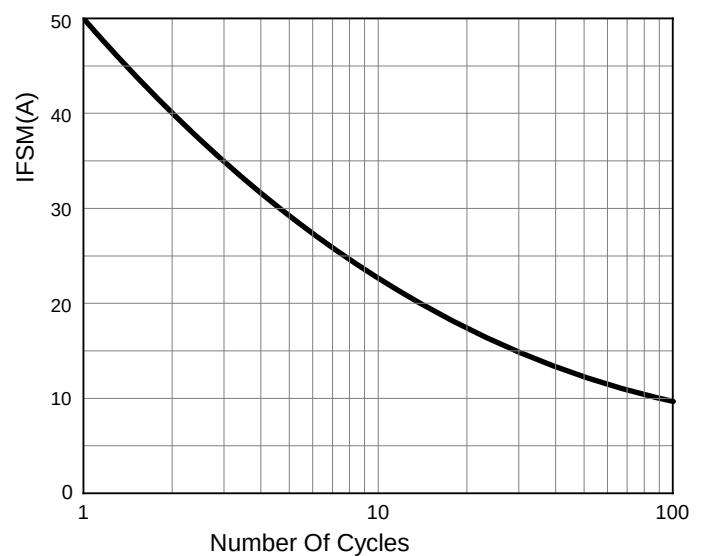
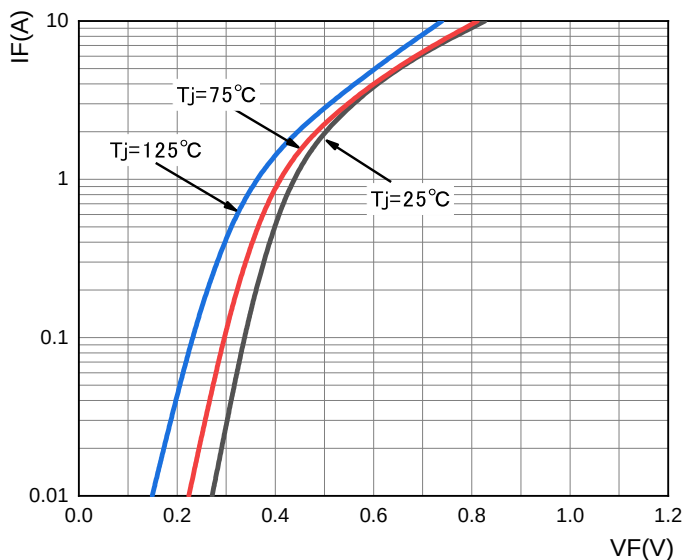


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



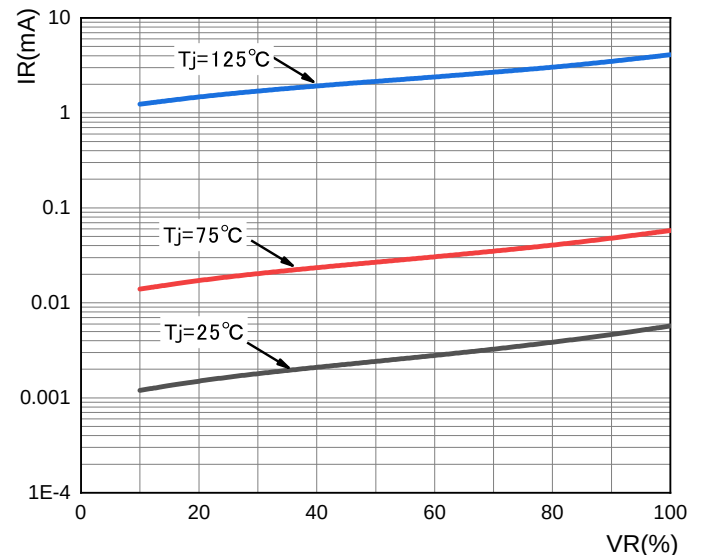
SS22B-SS24B

FIG.3: TYPICAL FORWARD CHARACTERISTICS



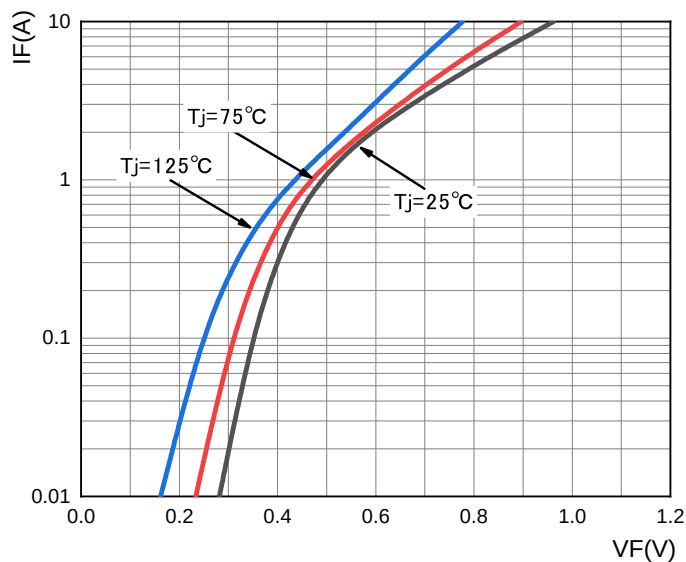
SS22B-SS24B

FIG.4: TYPICAL REVERSE CHARACTERISTICS



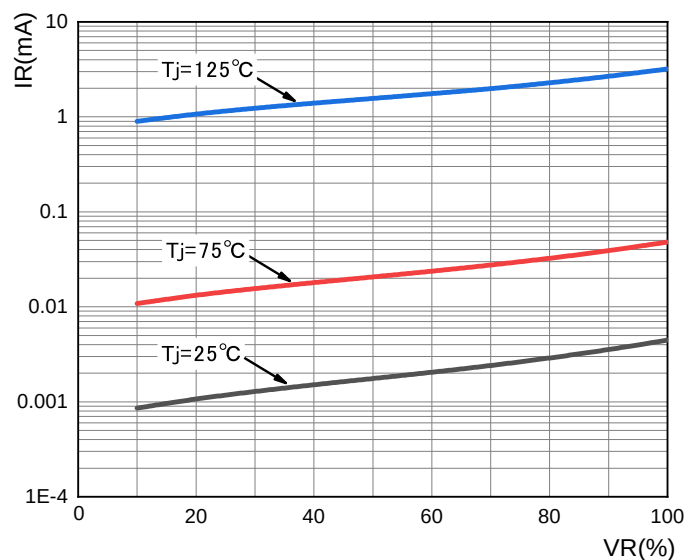
SS25B-SS26B

FIG.5: TYPICAL FORWARD CHARACTERISTICS



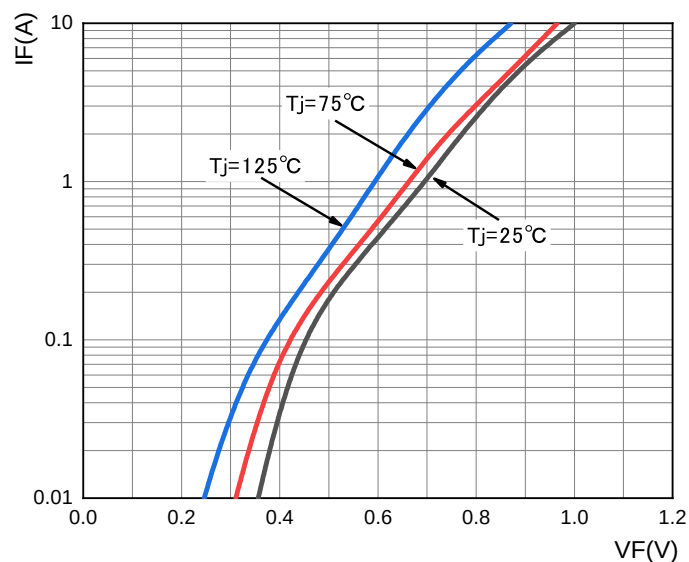
SS25B-SS26B

FIG.6: TYPICAL REVERSE CHARACTERISTICS



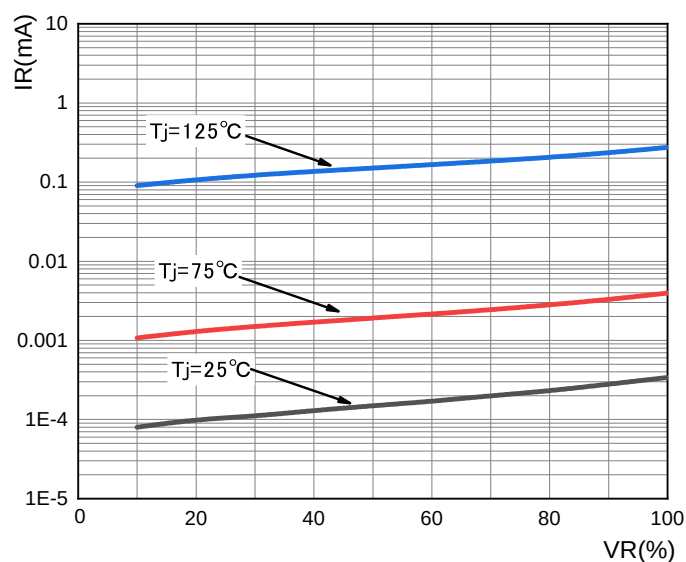
SS28B-SS210B

FIG.7: TYPICAL FORWARD CHARACTERISTICS



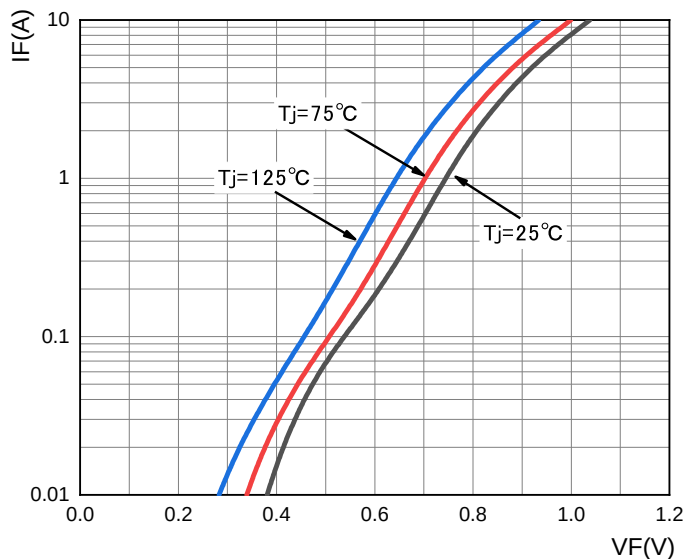
SS28B-SS210B

FIG.8: TYPICAL REVERSE CHARACTERISTICS



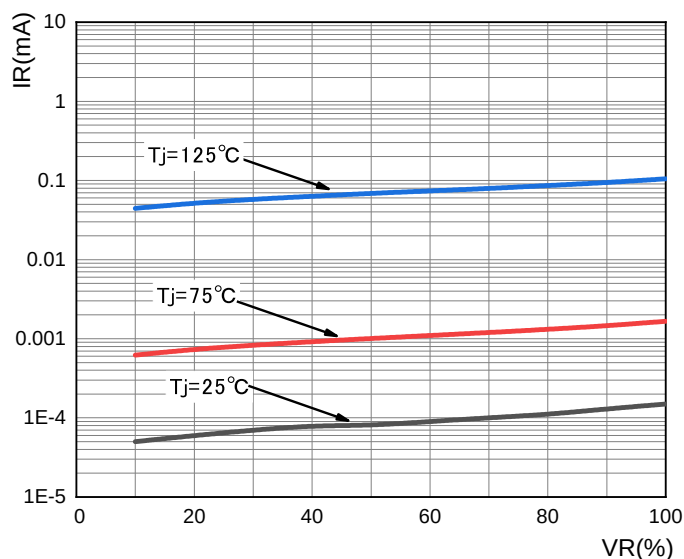
SS215B

FIG.9: TYPICAL FORWARD CHARACTERISTICS



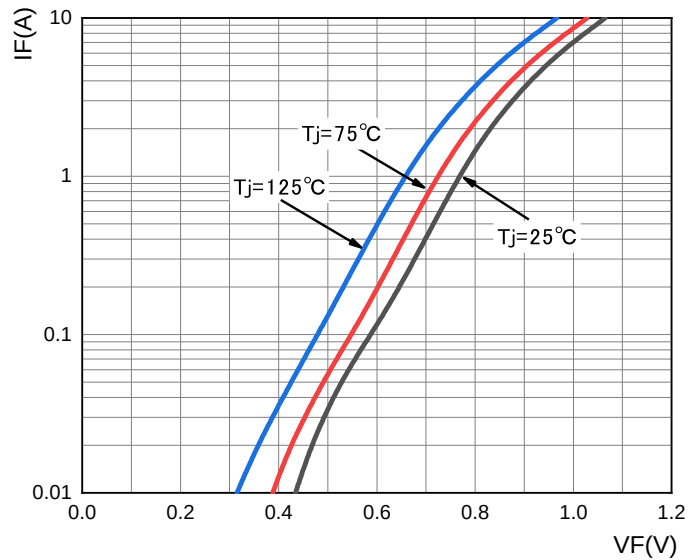
SS215B

FIG.10: TYPICAL REVERSE CHARACTERISTICS



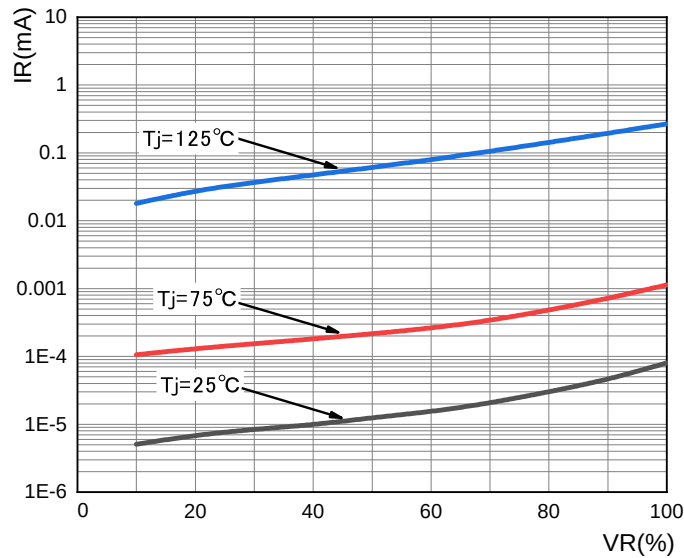
SS220B

FIG.11: TYPICAL FORWARD CHARACTERISTICS

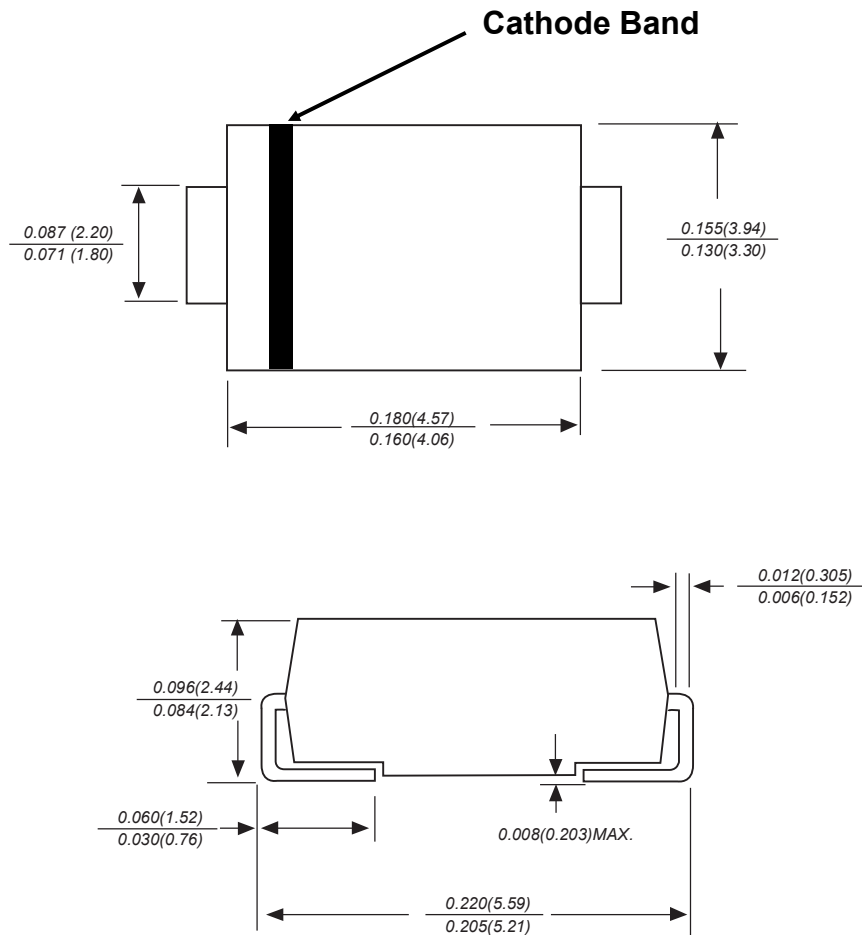


SS220B

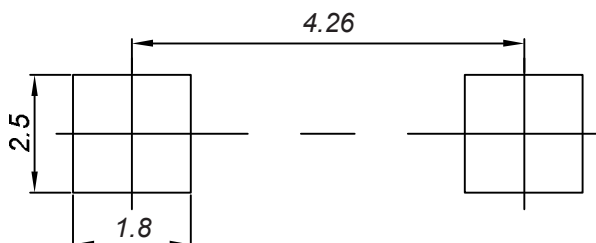
FIG.12: TYPICAL REVERSE CHARACTERISTICS



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.