

SMA Plastic-Encapsulate Diodes

SS32 THRU SS320

Schottky Rectifier Diodes

• Features

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

• Applications

- Rectifier


SMA (DO-214AC)

• MAXIMUM RATINGS

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

Item	Symbol	Unit	Test Conditions	SS3								
				2	3	4	5	6	8	10	15	20
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							
					2	3	4	5	6	8	10	15
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							
	R _{θJ-L}		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.	SS32-SS320
Marking	SS3**
Packing Information	REEL TAPE
Basic ordering unit (pcs)	2000

• Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

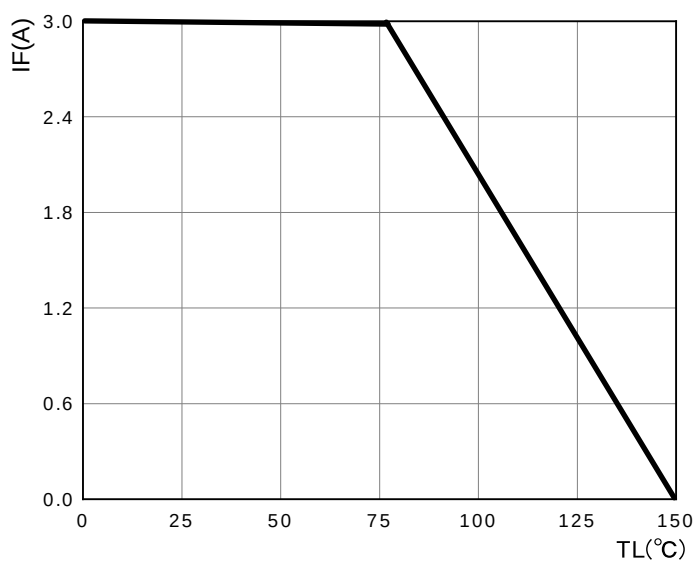
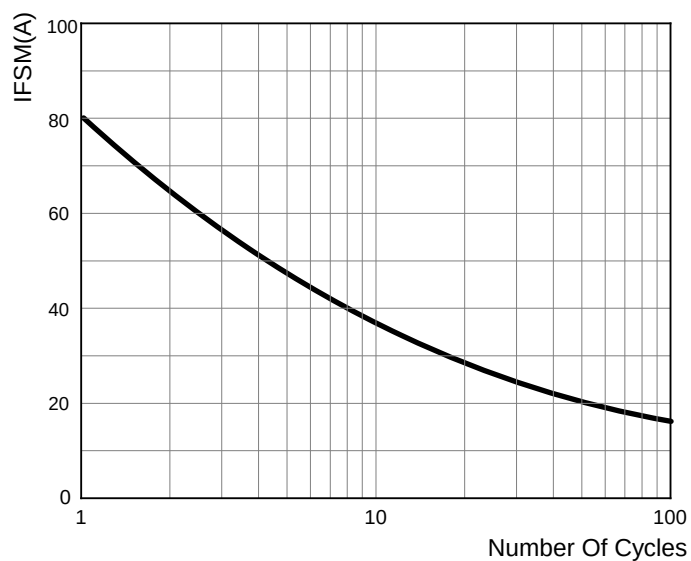
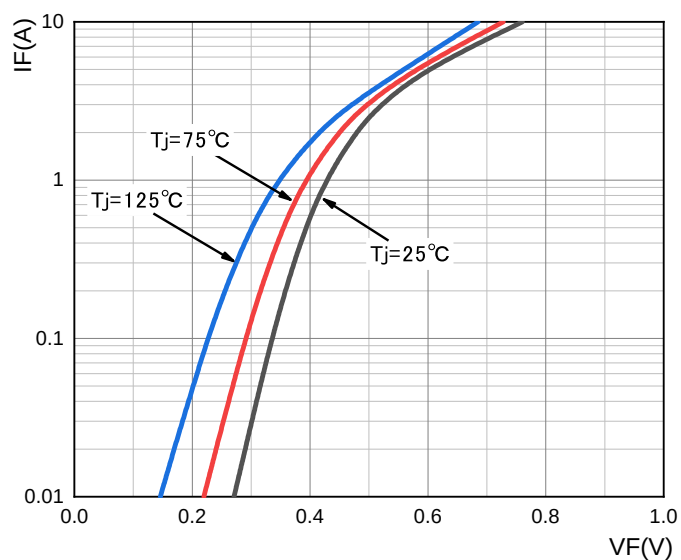


FIG 2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



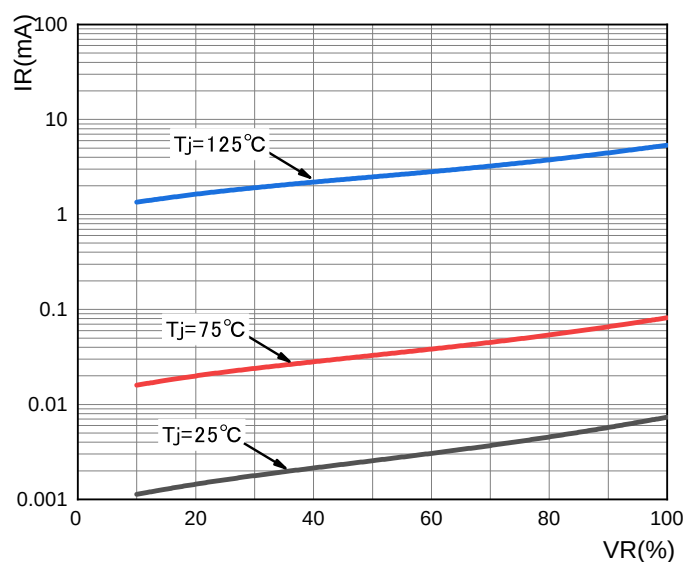
SS32-SS34

FIG.3: TYPICAL FORWARD CHARACTERISTICS



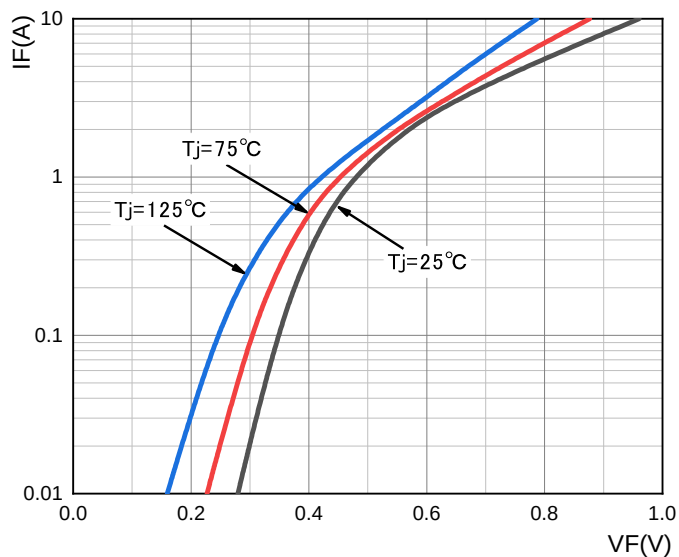
SS32-SS34

FIG.4: TYPICAL REVERSE CHARACTERISTICS



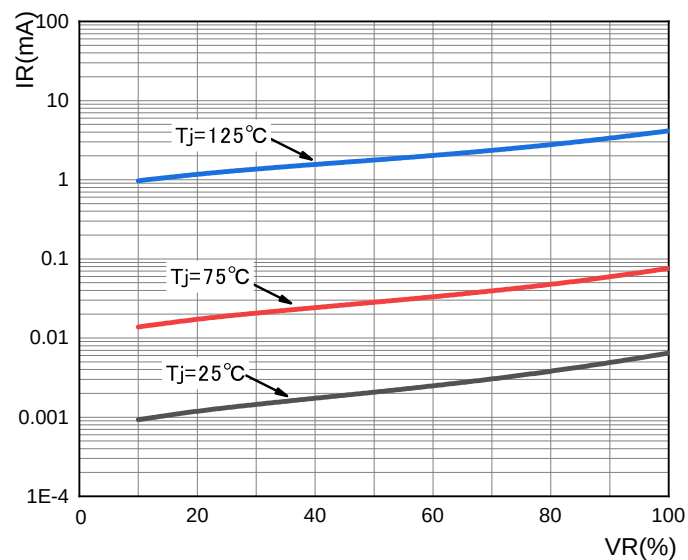
SS35-SS36

FIG.5: TYPICAL FORWARD CHARACTERISTICS



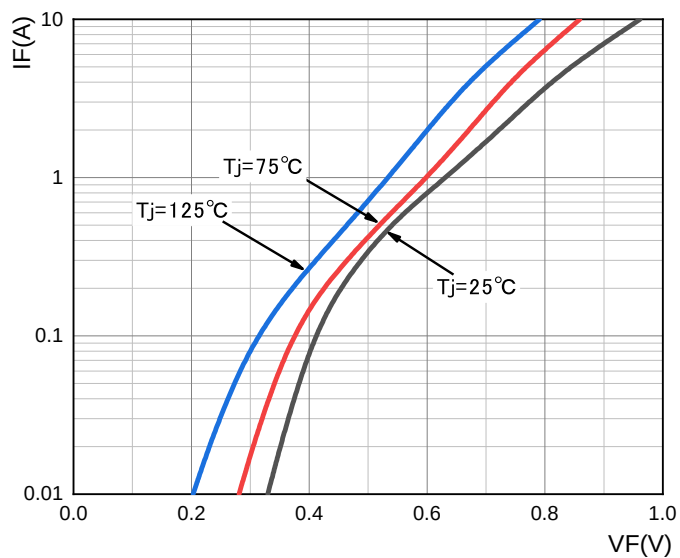
SS35-SS36

FIG.6: TYPICAL REVERSE CHARACTERISTICS



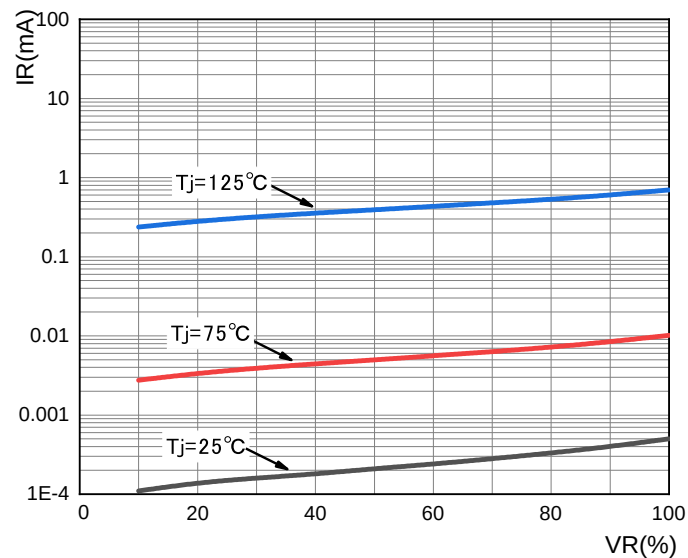
SS38-SS310

FIG.7: TYPICAL FORWARD CHARACTERISTICS



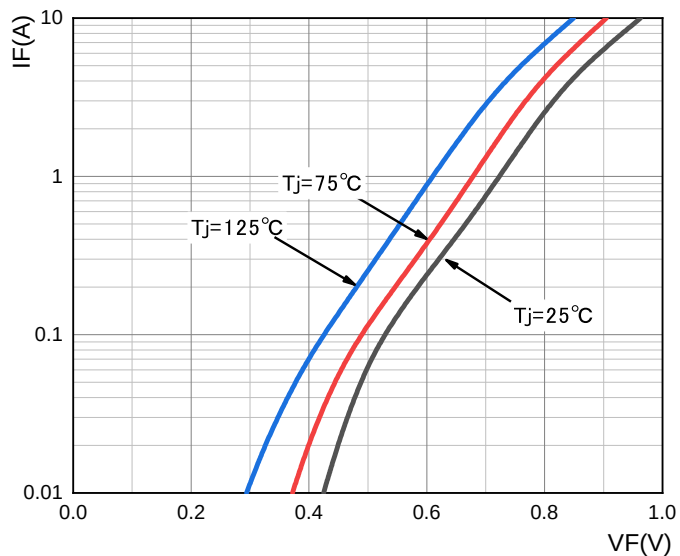
SS38-SS310

FIG.8: TYPICAL REVERSE CHARACTERISTICS



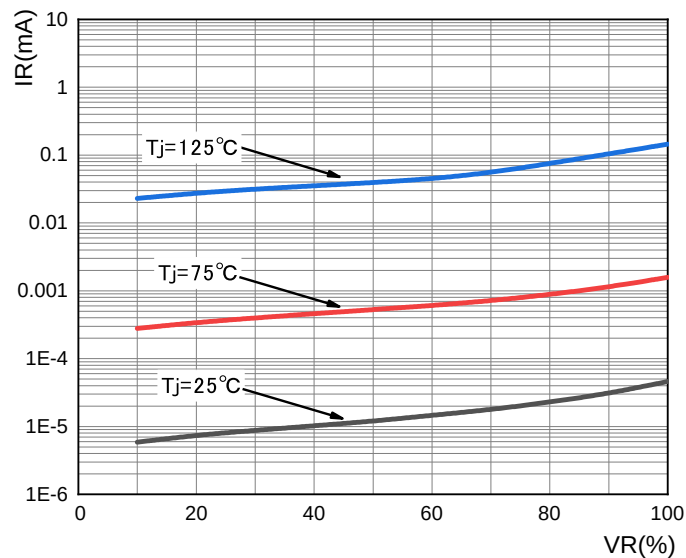
SS315

FIG.9: TYPICAL FORWARD CHARACTERISTICS



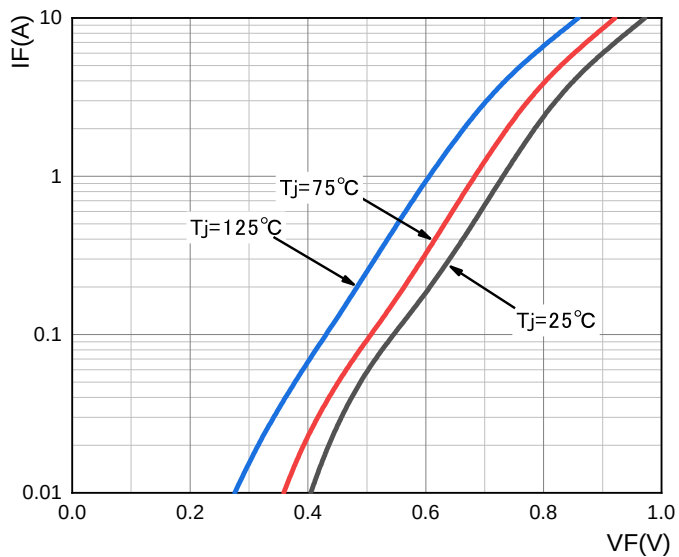
SS315

FIG.10: TYPICAL REVERSE CHARACTERISTICS



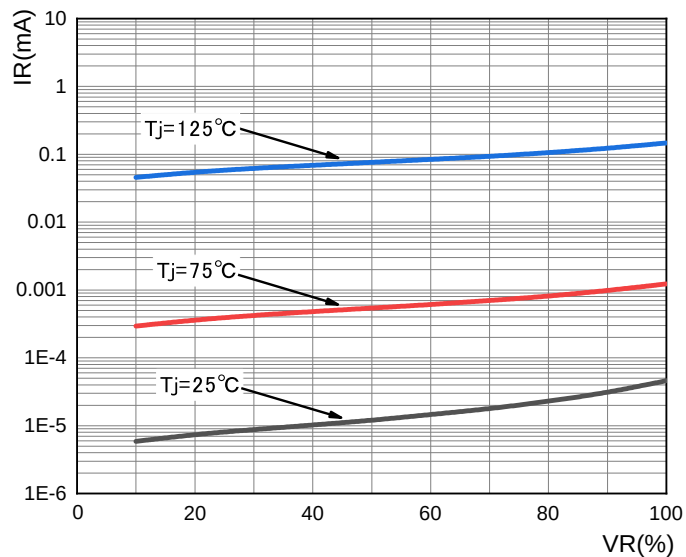
SS320

FIG.11: TYPICAL FORWARD CHARACTERISTICS

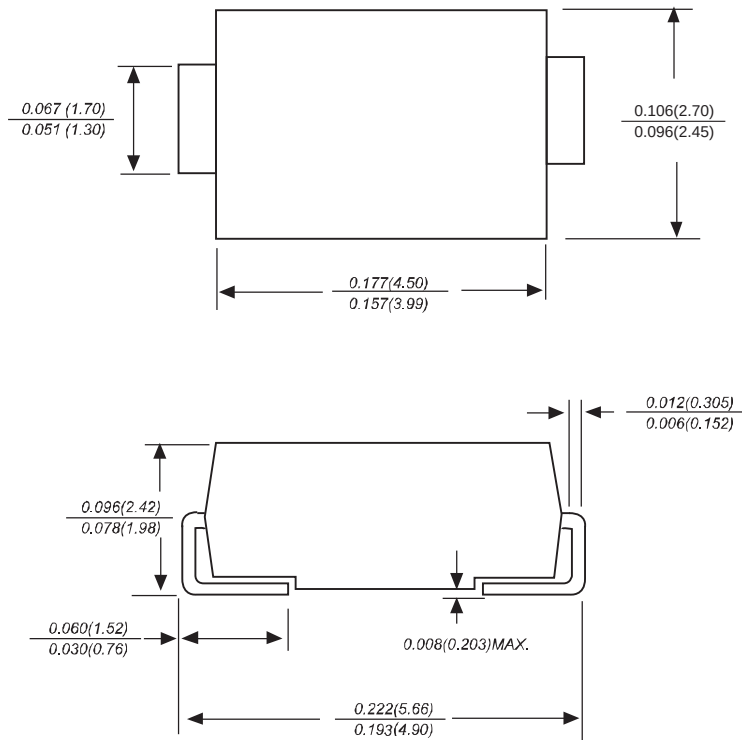


SS320

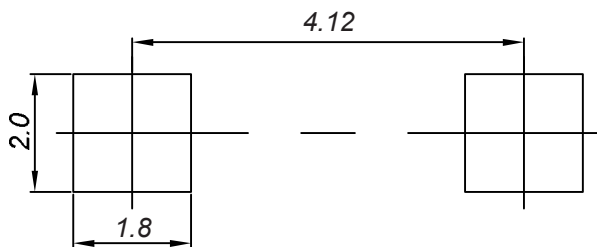
FIG.12: TYPICAL REVERSE CHARACTERISTICS



SMA 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.