

# SS22A THRU SS210A

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER  
 VOLTAGE RANGE 20 to 100 Volts    CURRENT 2.0 Ampere

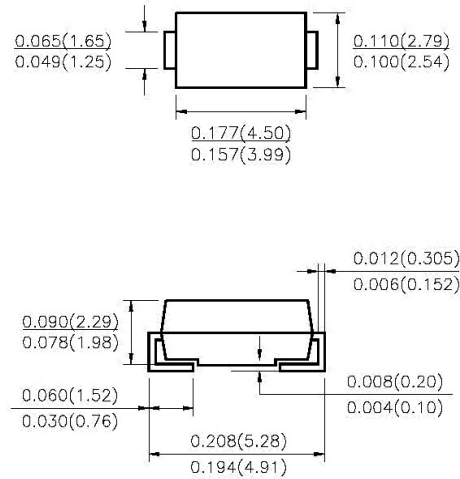
## FEATURES

- ◆ Low profile surface mount package
- ◆ Built in strain relief
- ◆ High switching speed
- ◆ Low voltage drop, high efficiency
- ◆ For use in low voltage high frequency inverters
- ◆ Free willing ,and polarity protection applications
- ◆ Guardring for over voltage protection

## Mechanical Data

- ◆ Case: Transfer molded plastic
- ◆ Epoxy: UL 94V-0 rate flame retardant
- ◆ Lead :Solder plated, solderable per MIL-STD-750 method 2026
- ◆ Polarity: Color band denotes cathode end
- ◆ Weight: 0.003 ounce, 0.093 gram

## DO-214AC (SMA)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SS 22A	SS 23A	SS 24A	SS 25A	SS 26A	SS 28A	SS 29A	SS 210A	UNIT	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	90	100	Volts	
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	63	70	Volts	
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	Volts	
Maximum Average Forward Rectified Current at TL see figure 1 TL =105°C	I <sub>(AV)</sub>	2.0								Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50								Amps	
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)	V <sub>F</sub>	0.55			0.70		0.85			Volts	
Maximum DC Reverse Current at rated.DC Blocking Voltage per element	I <sub>R</sub>	TA = 25°C	0.5								mA
		TA = 100°C	20.0				10.0				
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	55								°C/W	
	R <sub>θJL</sub>	12									
Operating Junction Temperature	T <sub>J</sub>	-55 to +125								°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150								°C	

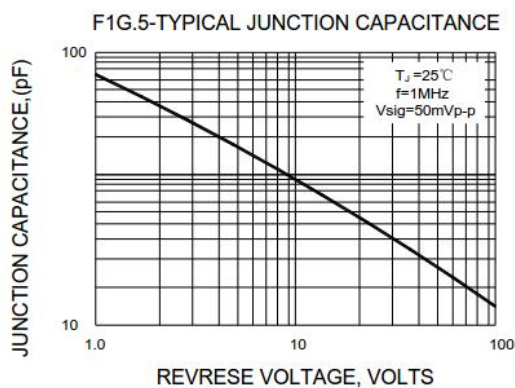
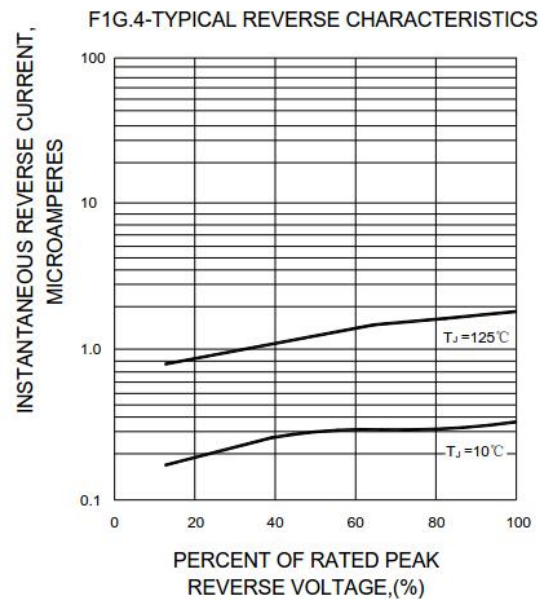
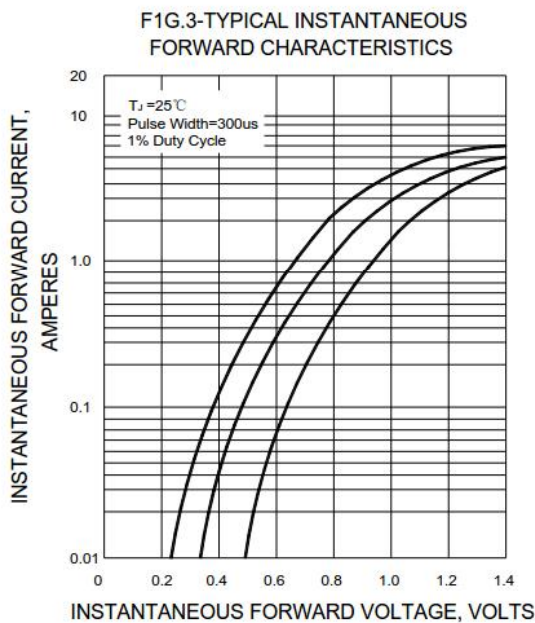
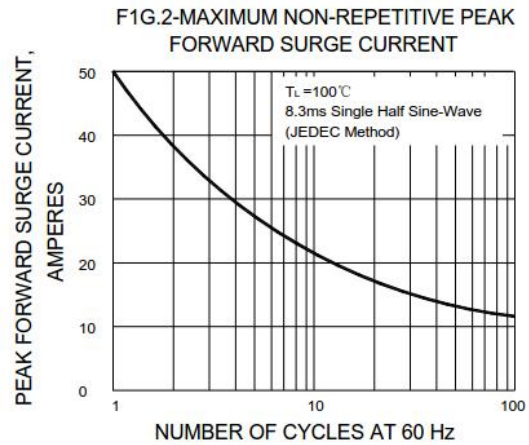
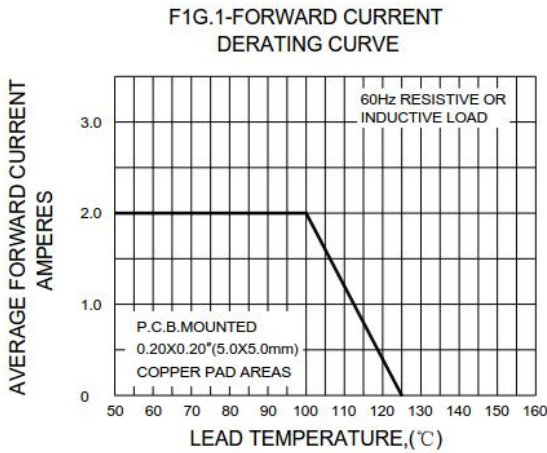
Note: 1. Pulse test: 300µs pulse width,1% duty cycle

2. PCB mounted with 0.2"×0.2" (5.0mm×5.0mm) copper pads

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## RATING AND CHARACTERISTIC CURVES SS22A THRU SS210A



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.