



# SHENZHEN FAITH TECHNOLOGY CO.,LTD

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

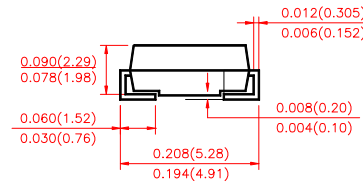
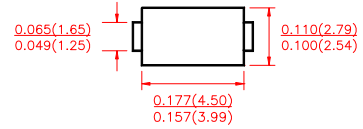
SS22A THRU SS210A

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

DO-214AC(SMA)



Dimensions in inches and (millimeters)

### 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

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified.
- Single phase, half wave, 60Hz, resistive or inductive load.
- For capacitive load derate current by 20%.

	SYMBOLS	SS 22A	SS 23A	SS 24A	SS 25A	SS 26A	SS 28A	SS 29A	SS 210A	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at $T_{i,see}$ figure 1 $T_L=105^\circ C$	$I_{(AV)}$	2.0								Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50								Amps
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)	$V_F$	0.55			0.70		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ C$	0.5								mA
	$T_A = 100^\circ C$	20.0			10.0					
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55								°C/W
	$R_{\theta JL}$	12								
Operating Junction Temperature	$T_J$	-55 to +125								°C
Storage Temperature Range	$T_{STG}$	-55 to +125								°C

#### Notes:

1. Pulse test:300  $\mu$  s pulse width,1% duty cycle
2. PCB mounted with 0.2"  $\times$  0.2"(5.0mm  $\times$  5.0mm)copper pads



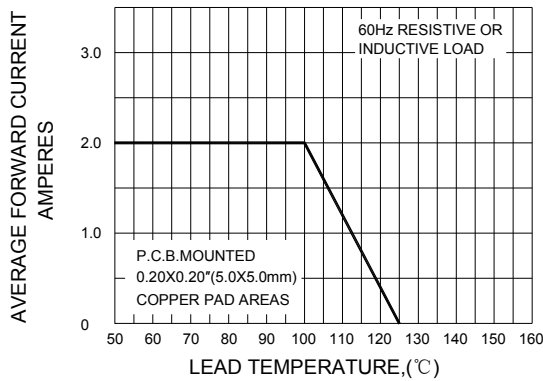
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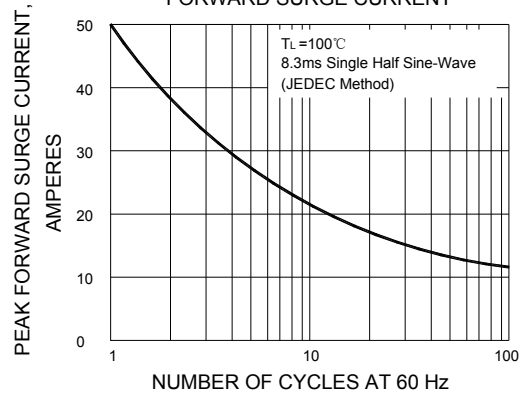
**SS22A THRU SS210A**

<b>VOLTAGE RANGE</b>	<b>20 to 100 Volts</b>
<b>CURRENT</b>	<b>2.0 Ampere</b>

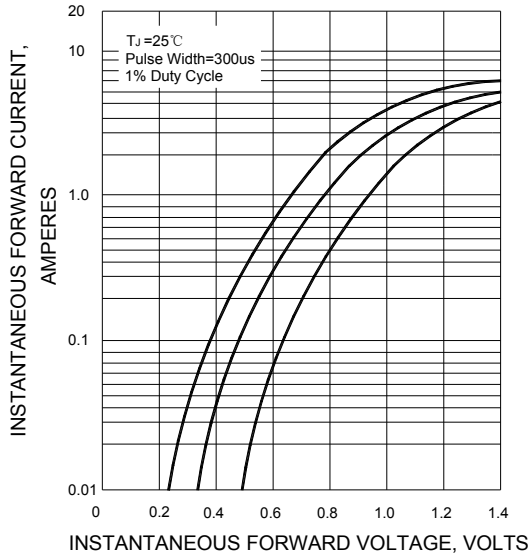
**FIG.1-FORWARD CURRENT DERATING CURVE**



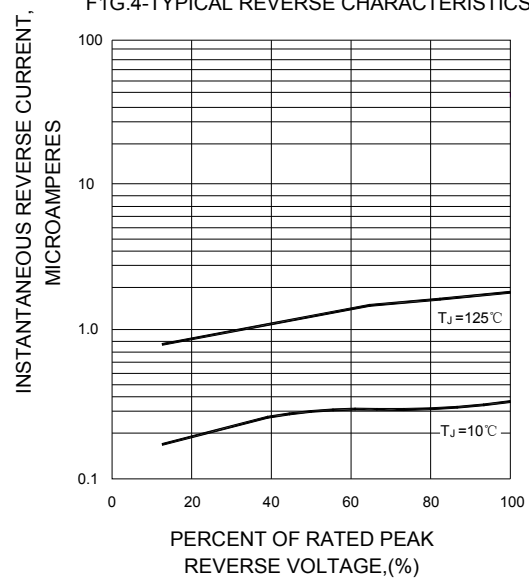
**FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**



**FIG.5-TYPICAL JUNCTION CAPACITANCE**

