



# SS22 THRU SS220

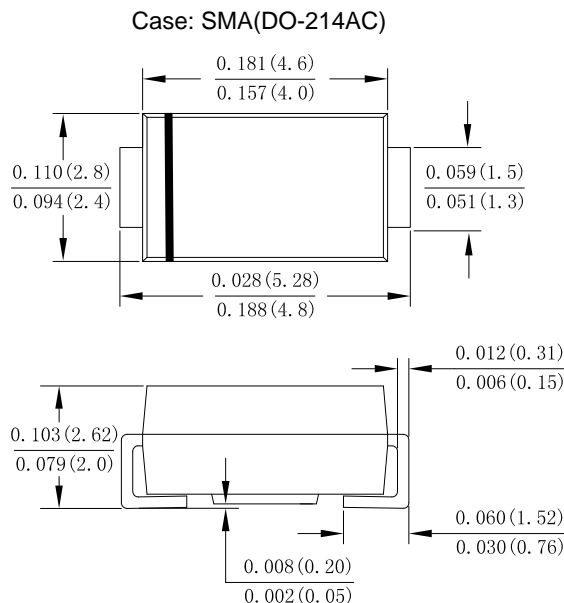
2.0 AMP Surface Mount Schottky Barrier Rectifier

## Features

- Schottky Brrier Chip
- Low Power Loss,High Efficiency
- Ideally Suited for Automatic Assembly
- Surge Overload Rating to 50A Peak
- Plastic Case Material has UL Flammability Classification Rating 94V-0

## Mechanical Data

- Case: Molded plastic SMA
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Making: Type Number



## 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%

Type Number	SYMBOL	SS 22	SS 23	SS 24	SS 245	SS 25	SS 26	SS 28	SS 210	SS 215	SS 220	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	45	50	60	80	100	150	200	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	31	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	45	50	60	80	100	150	200	V
Average Rectified Output Current @T <sub>L</sub> =100℃	I <sub>F(AV)</sub>	2.0										A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	50										A
Rating for fusing (t<8.3ms)	I <sup>2</sup> t	10.37										A <sup>2</sup> s
Forward Voltage @I <sub>F</sub> =2.0A	V <sub>FM</sub>	0.55				0.7		0.85		0.92		V
Peak Reverse Current @T <sub>A</sub> =25℃	I <sub>R</sub>	0.1						0.05				mA
At Rated DC Blocking Voltage @T <sub>A</sub> =100℃		10						5				
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	80						40				pF
Typical Thermal Resistance	R <sub>θJA</sub>	110										℃/W
Operating Temperature Range	T <sub>J</sub>	-55 to+150										℃
Storage Temperature Range	T <sub>STG</sub>	-55 to +150										℃

Note:

1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



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Fig. 1 Forward Current Derating Curve

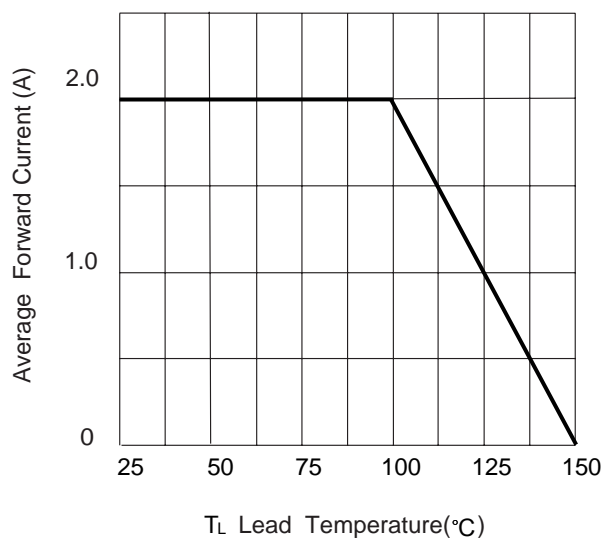


Fig. 2 Typ. Forward Characteristics

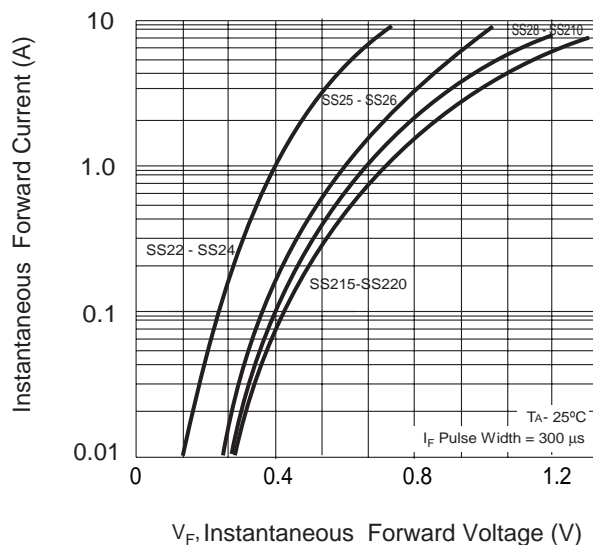


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

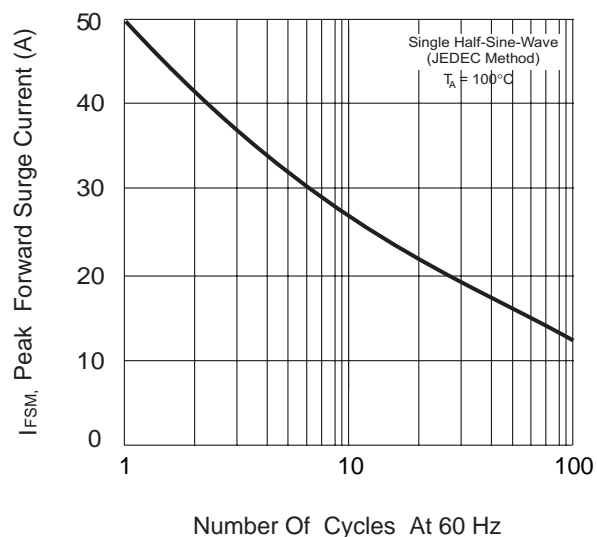


Fig.4 Typical Reverse Characteristics (per element)

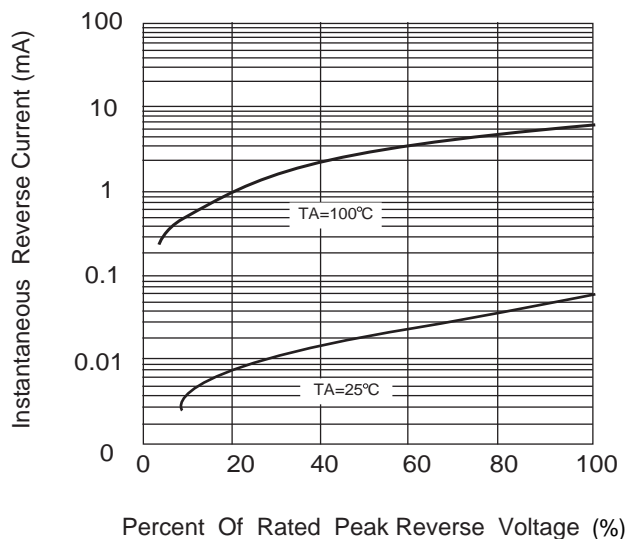
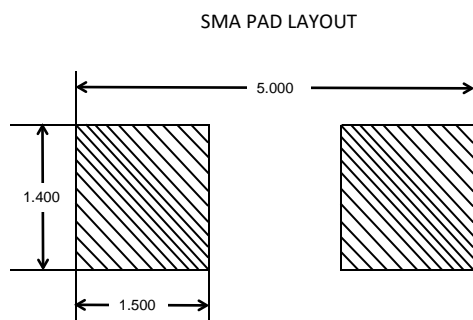


Fig.5 Mounting PAD Layout





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