

# SS12D THRU SS110D

## Surface Mount Schottky Barrier Rectifiers

Reverse Voltage - 20 to 100 V

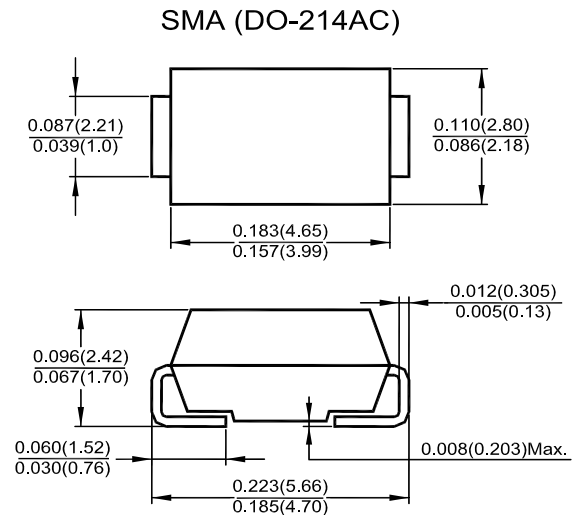
Forward Current - 1 A

### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- Low power loss, high efficiency.
- High forward surge current capability

### Mechanical Data

- **Case:** SMA (DO-214AC) molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** color band denotes cathode end



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

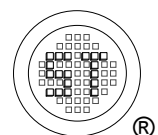
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, for capacitive load, derate by 20 %

capacitive load, derate by 25 %

Parameter	Symbols	SS12D	SS13D	SS14D	SS15D	SS16D	SS18D	SS110D	Unit
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current	I <sub>F(AV)</sub>	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	30							A
Maximum Instantaneous Forward Voltage at 1 A	V <sub>F</sub>	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage T <sub>a</sub> = 25°C T <sub>a</sub> = 100°C	I <sub>R</sub>	0.5							mA
		20							
Typical Junction Capacitance <sup>1)</sup>	C <sub>j</sub>	110							pF
Typical Thermal Resistance <sup>2)</sup>	R <sub>θJA</sub>	88							°C/W
Operating Junction Temperature Range	T <sub>j</sub>	- 55 to + 125							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

<sup>1)</sup> Measured at 1MHz and applied reverse voltage of 4 V D.C.

<sup>2)</sup> P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.



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