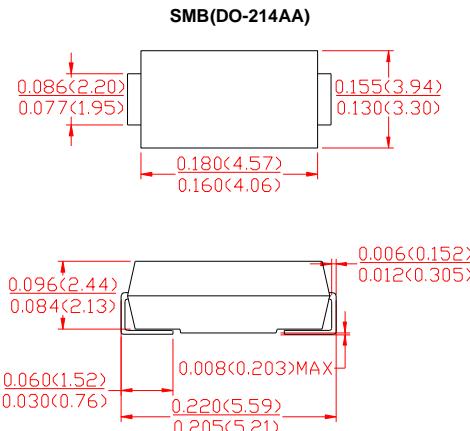


**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
SS12B THRU SS110B**
**VOLTAGE RANGE 20 to 100 Volts
Forward Current 1.0 Amperes**
FEATURES

- | Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- | Metal silicon junction, majority carrier conduction
- | For surface mount applications
- | Guard ring for over voltage protection
- | Low power loss, high efficiency
- | High current capability, Low forward voltage drop
- | High surge capability
- | For use in low voltage, high frequency inverters, Free wheeling, and polarity protection applications
- | High temperature soldering guaranteed: 250°C/10 seconds at terminals

MECHANICAL DATA

- | Case: JEDEC SMA (DO-214AC) molded plastic body
- | Terminals: Solder Plated, solderable per MIL-STD-750 Method 2026
- | Polarity: Color band denotes cathode end
- | Weight: 0.002 ounce, 0.064 gram



Dimensions in inches and (millimeters)

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 by 20%.

	SYMBOLS	SS12B	SS13B	SS14B	SS15B	SS16B	SS18B	SS19B	SS110B	UNITS																			
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 0.375"(9.5mm) lead length (see Fig.1)	$I_{(AV)}$	1.0							Amps																				
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30.0							Amps																				
Maximum Instantaneous Forward Voltage of 1.0A (Note 1)	V_F	0.55		0.75		0.85		Volts																					
Maximum instantaneous Reverse Current at rated DC blocking voltage (Note 1)	I_R	0.5 10							mA																				
Typical thermal capacitance (Note 2)	R_{QIL} R_{QIA}	28.0 88.0							°C/W																				
Operating and Storage Temperature Range	T_J	-65 to +125			-65 to +150																								
Storage temperature range	T_{STG}	-65 to +150																											
NOTES:																													
1.Pulse test: 300μs pulse width, 1% duty cycle.																													
2.P.C.B. Mounted with 0.2*0.2"(5.0*5.0mm) copper pads.																													

RATINGS AND CHARACTERISTIC CURVES SS12B THRU SS1110B

