

**VOLTAGE RANGE: 150 - 200V**  
**CURRENT: 5.0 A**

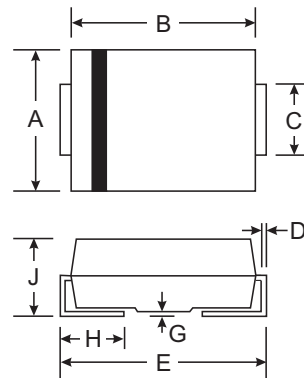
### Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-O



### Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

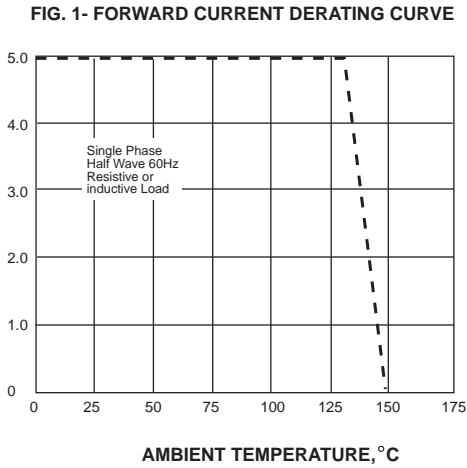
Characteristic	Symbol	SS5150	SS5200	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	150	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	105	150	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	150	200	Volts
Maximum average forward rectified current at T <sub>L</sub> (see fig.1)	I <sub>(AV)</sub>	5.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150.0		Amps
Maximum instantaneous forward voltage at 5.0A	V <sub>F</sub>	0.85	0.95	Volts
Maximum DC reverse current T <sub>A</sub> =25°C at rated DC blocking voltage T <sub>A</sub> =100°C	I <sub>R</sub>	0.2		mA
		2.0		
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	200		pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	50.0		°C/W
Operating junction temperature range	T <sub>J</sub>	-50 to +150		°C
Storage temperature range	T <sub>STG</sub>	-50 to +150		°C

**Note:** 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

## RATINGS AND CHARACTERISTIC CURVES SS5150 THRU SS5200

AVERAGE FORWARD RECTIFIED CURRENT, AMPERES



PEAK FORWARD SURGE CURRENT, AMPERES

