

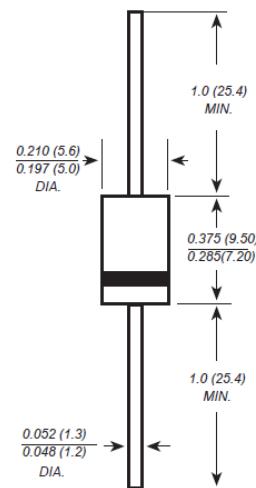
SB5200

Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 200 V

Forward Current - 5 A

DO-201AD



Dimensions in inches and (millimeters)

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- **Case:** Molded plastic body, JEDEC DO-201AD.
- **Terminals:** Axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end.
- **Mounting Position:** Any

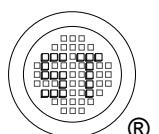
Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	Value	Unit
Marking		SB5200	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120	A
Maximum Instantaneous Forward Voltage at 5 A	V _F	0.85	V
Maximum DC Reverse Current at T _a = 25°C Rated DC Blocking Voltage T _a = 100°C	I _R	0.1 1	mA
Typical Junction Capacitance ¹⁾	C _J	120	pF
Typical Thermal Resistance ²⁾	R _{θJA}	10	°C/W
Typical Thermal Resistance ²⁾	R _{θJC}	2	°C/W
Operating Junction Temperature Range	T _j	- 55 to + 150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.

²⁾ Thermal Resistance from Junction to lead vertical P.C.B, mounted with 0.375"(9.5mm) lead length



SB5200

