SB5100L

Schottky Barrier Rectifier Reverse Voltage - 100 V Forward Current - 5 A

Features

- Plastic package has UL flammability classification 94V-0
- Metal silicon junction, majority carrier conduction
- High forward surge current capability

Mechanical Data

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



DO-201AD

Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	Value	Units
	Marking	SB5100L	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum RMS Voltage	V _{RMS}	70	V
Maximum DC Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	A
Peak Forward Surge Current, 8.3 ms Single Half-Sine-Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	90	А
Maximum Forward Voltage at 5 A DC	V _F	0.7	V
Maximum Reverse Current $T_a = 25^{\circ}C$ at Rated DC Blocking Voltage $T_a = 100^{\circ}C$	I _R	0.5 10	mA
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JA}$	25	°C/W
Typical Junction Capacitance ¹⁾	C _j	400	pF
Operating Junction Temperature Range	Tj	- 55 to + 150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

¹⁾ Thermal resistance from junction to ambient at 0.375"(9.5 mm)lead length, P.C.B. mounted.

²⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.





