SB5200

Surface Mount Schottky Barrier Rectifier Reverse Voltage - 200 V Forward Current - 5 A

DO-201AD

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%.

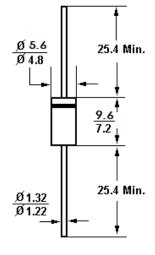
Parameter	Symbols	SB5200	Unit
	Marking	SB5200	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V _{DC}	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5	А
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120	А
Maximum Instantaneous Forward Voltage at 3 A	V _F	0.85	V
Maximum DC Reverse Current at $T_a = 25^{\circ}C$ Rated DC Blocking Voltage $T_a = 100^{\circ}C$	I _R	0.1 1	mA
Typical Junction Capacitance ¹⁾	C _j	120	pF
Typical Thermal Resistance 2)	$R_{ extsf{ heta}JA}$	10	°C/W
Typical Thermal Resistance 2)	$R_{ extsf{ heta}JC}$	2	°C/W
Operating Junction Temperature Range	Tj	- 55 to + 150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

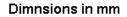
¹⁾ Measured at 1MHz and applied reverse voltage of 4 V D.C.

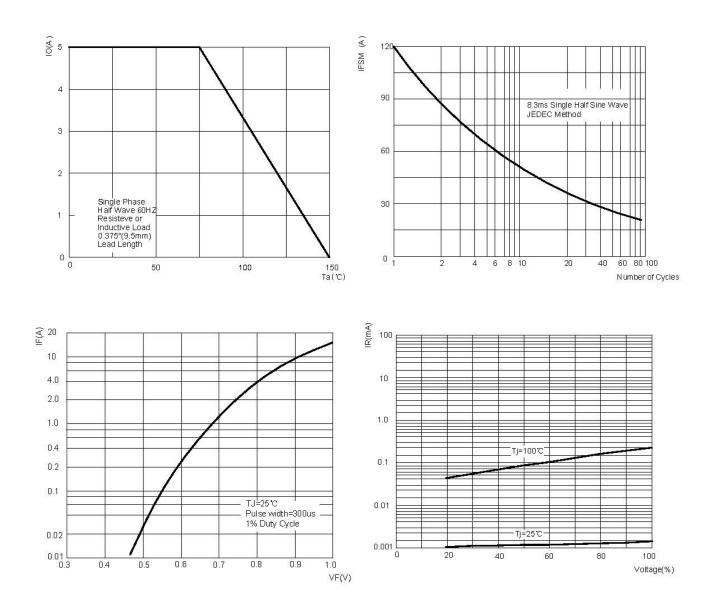
²⁾ Thermal Resistance from Junction to lead vertical P.C.B, mounted with 0.375" (9.5mm) lead length



Dated: 08/11/2016 TL Rev:01









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