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Diodes Incorporated SB3100-T

For any questions, you can email us directly: sales@integrated-circuit.com

Distributor of Diodes Incorporated: Excellent Integrated System Limited

Datasheet of SB3100-T - DIODE SCHOTTKY 100V 3A DO201AD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



SB370 - SB3100

3.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Surge Overload Rating to 80A Peak
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Lead Free Finish, RoHS Compliant (Note 3)

Mechanical Data

- Case: DO-201AD
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Solderable per MIL-STD-202, Method 208 (23)
- Polarity: Cathode Band
- Marking Information: See Page 3Ordering Information: See Page 3
- Weight: 1.1 grams (approximate)

Maximum Ratings and Electrical Characteristics @TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitance load, derate current by 20%

Characteri	stic	Symbol	SB370	SB380	SB390	SB3100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage		V _{R(RMS)}	49	56	63	70	V
Average Rectified Output Current (Note 1)	@ T _L = 80°C	Io		3	3.0		Α
Non-Repetitive Peak Forward Surge Single Half Sine-Wave Superimposed		I _{FSM}		1	00		Α
Forward Voltage	@ I _F = 3.0A	V _{FM}		0	.79		V
Peak Reverse Current at Rated DC Blocking Voltage	@ T _A = 25°C @ T _A = 100°C	I _{RM}	0.5 20		mA		
Typical Junction Capacitance (Note 2)	C _j		2	50		pF

Thermal Characteristics

Characteristic	Symbol	SB370	SB380	SB390	SB3100	Unit
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	20		K/W		
Operating and Storage Temperature Range	T _{J,} T _{STG}	-65 to +150			°C	

Notes:

- 1. Measured at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, See EU Directive Annex Notes 5 and 7.

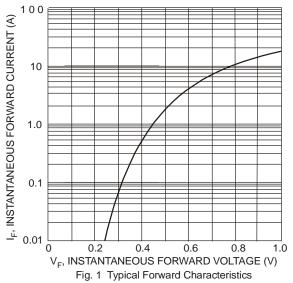
SB370 - SB3100 Document number: DS30134 Rev. 3 - 2

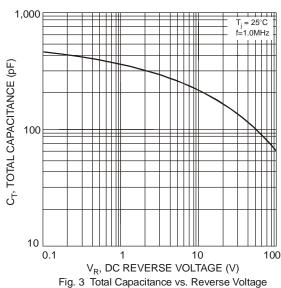
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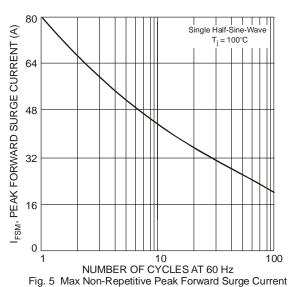
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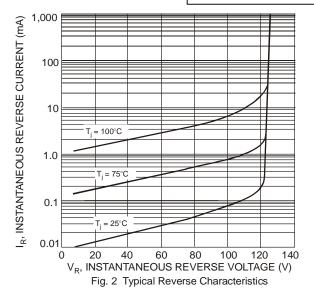
DECDES.







SB370 - SB3100



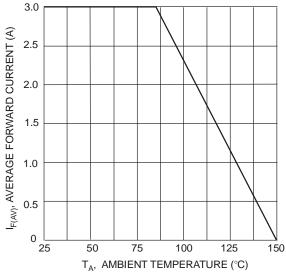


Fig. 4 Forward Current Derating Curve



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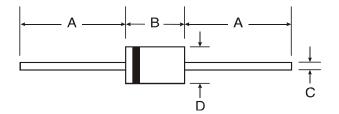
SB370 - SB3100

Ordering Information (Note 4)

Part Number	Case	Packaging
SB370-B	DO-201AD	500/Bulk
SB370-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SB380-B	DO-201AD	500/Bulk
SB380-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SB390-B	DO-201AD	500/Bulk
SB390-T	DO-201AD	1.2K/Tape & Reel, 13-inch
SB3100-B	DO-201AD	500/Bulk
SB3100-T	DO-201AD	1.2K/Tape & Reel, 13-inch

Notes: 4. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Package Outline Dimensions



DO-201AD					
Dim	Min	Max			
Α	25.40	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

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