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
- Polarity: Cathode Band
- Marking Information: See Page 3Ordering Information: See Page 3
- Weight: 1.1 grams (approximate)

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

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

For capacitance load, derate current by 20%.

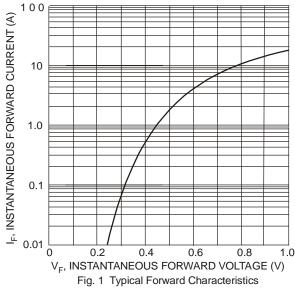
Character	stic	Symbol	SB370	SB380	SB390	SB3100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		V _{RRM} V _{RWM} V _R	70	80	90	100	V
RMS Reverse Voltage		V _{R(RMS)}	49	56	63	70	V
Average Rectified Output Current (Note 1)	@ T _L = 80°C	Io	3.0		·	Α	
Non-Repetitive 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	250			pF	

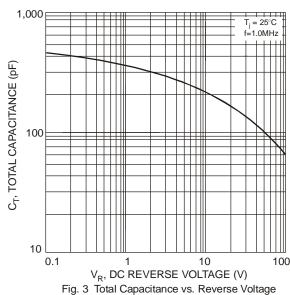
Thermal Characteristics

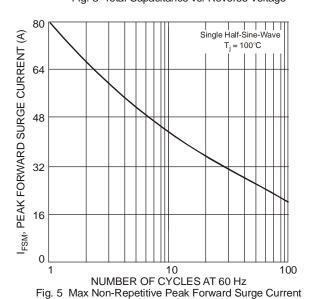
Characteristic	Symbol	SB370	SB380	SB390	SB3100	Unit
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	20		K/W		
Operating and Storage Temperature Range	T _{J,} T _{STG}	-65 to +150			°C	

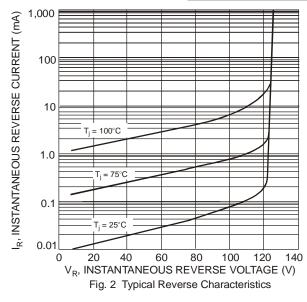
Notes:

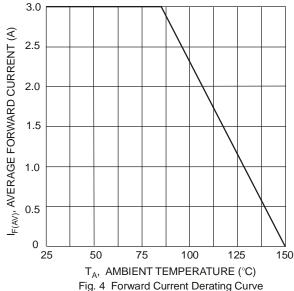
- 1. Measured at ambient temperature at a distance of 9.5mm from the case.
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, See EU Directive Annex Notes 5 and 7.









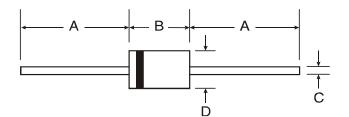


Ordering Information (Note 4)

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		
C	1.20	1.30		
D	4.80	5.30		
All Dimensions in mm				

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