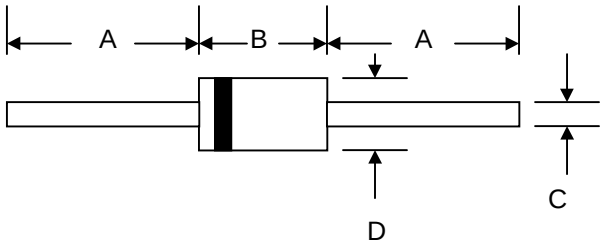
SB320 – SB360

3.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 1.2 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

DO-201AD		
Dim	**Min**	**Max**
A	25.4	—
B	8.50	9.50
C	1.20	1.30
D	5.0	5.60
All Dimensions in mm		

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

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	SB320	SB330	SB340	SB350	SB360	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V
Average Rectified Output Current (Note 1) @T_L = 95°C	I_O	3.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80					A
Forward Voltage @I_F = 3.0A	V_{FM}	0.50			0.74		V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	0.5 20					mA
Typical Junction Capacitance (Note 2)	C_j	250					pF
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

Note: 1. Valid provided that leads are kept 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 D.C.

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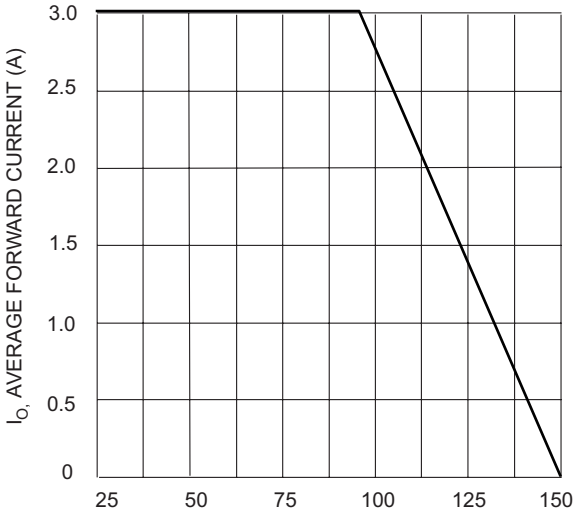


Fig. 1 Forward Current Derating Curve

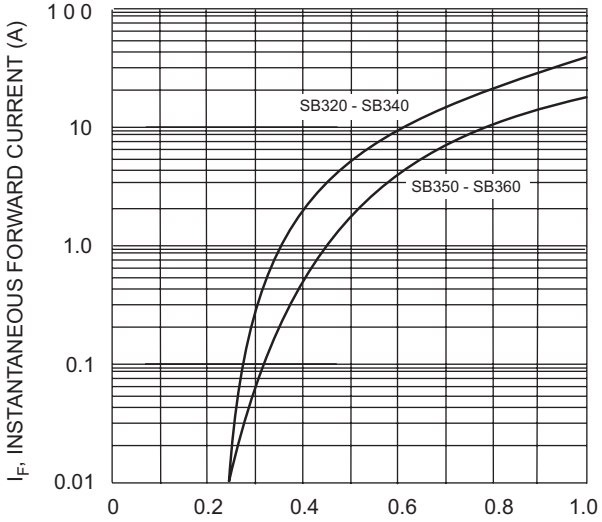


Fig. 2 Typical Forward Characteristics

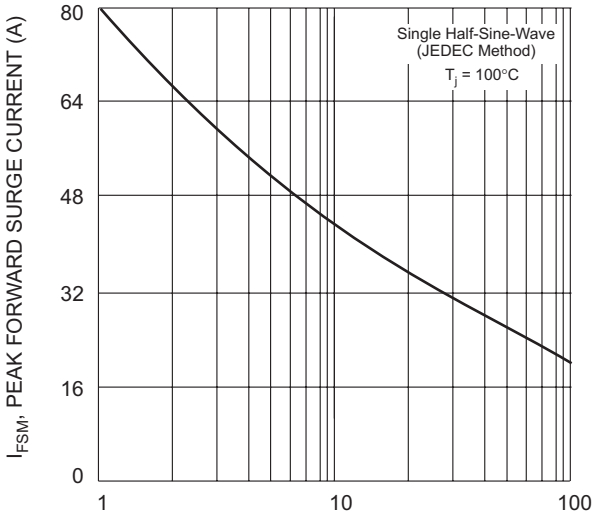


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

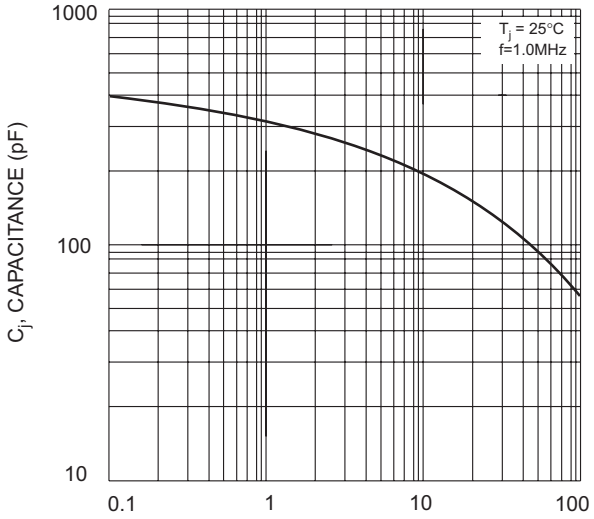


Fig. 4 Typical Junction Capacitance

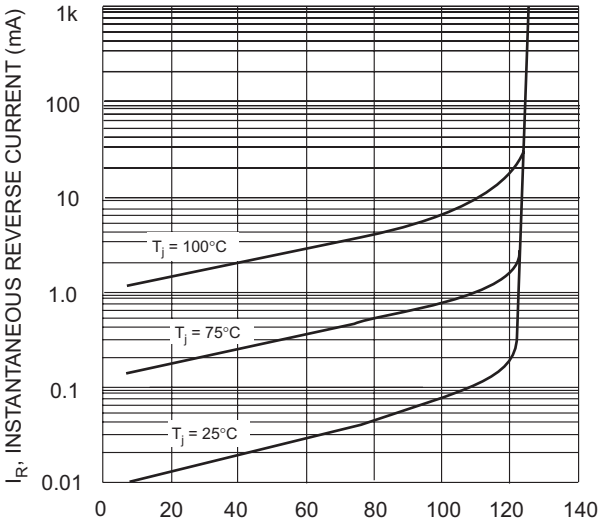


Fig. 5 Typical Reverse Characteristics

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ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SB320-T3	DO-201AD	1200/Tape & Reel
SB320-TB	DO-201AD	1200/Tape & Box
SB320	DO-201AD	500 Units/Box
SB330-T3	DO-201AD	1200/Tape & Reel
SB330-TB	DO-201AD	1200/Tape & Box
SB330	DO-201AD	500 Units/Box
SB340-T3	DO-201AD	1200/Tape & Reel
SB340-TB	DO-201AD	1200/Tape & Box
SB340	DO-201AD	500 Units/Box
SB350-T3	DO-201AD	1200/Tape & Reel
SB350-TB	DO-201AD	1200/Tape & Box
SB350	DO-201AD	500 Units/Box
SB360-T3	DO-201AD	1200/Tape & Reel
SB360-TB	DO-201AD	1200/Tape & Box
SB360	DO-201AD	500 Units/Box

Products listed in **bold** are WTE **Preferred** devices.
◆T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.
Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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