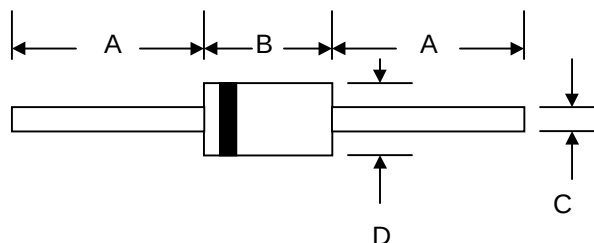


Features

- 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	SB520	SB530	SB540	SB550	SB560	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 = 100°C	I _O	5.0					A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	150					A
Forward Voltage @I _F = 5.0A	V _{FM}	0.55			0.70		V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.5 50			mA		
Typical Junction Capacitance (Note 2)	C _j	550			400		pF
Typical Thermal Resistance Junction to Ambient	R _{θJA}	10					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.

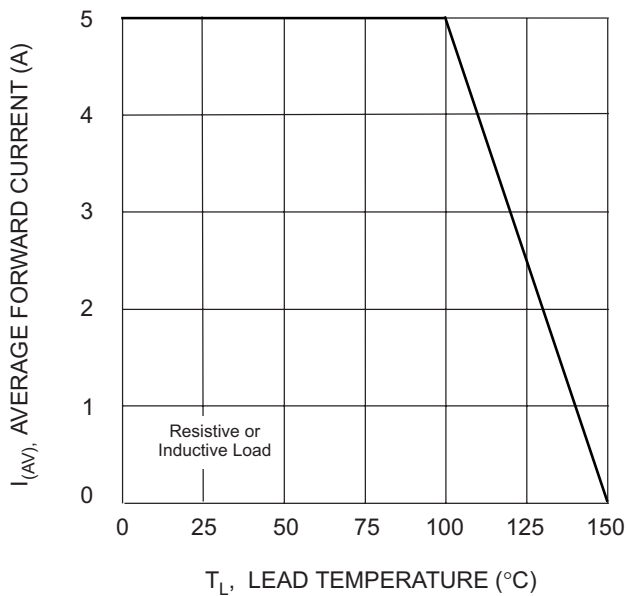


Fig. 1 Forward Current Derating Curve

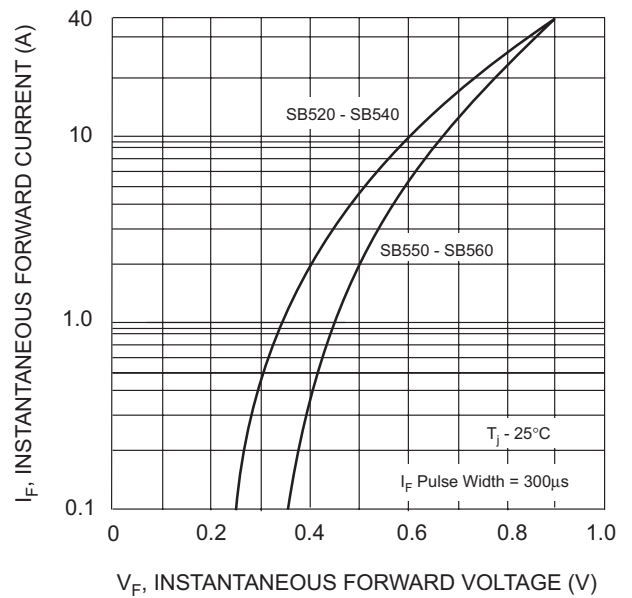


Fig. 2 Typical Forward Characteristics

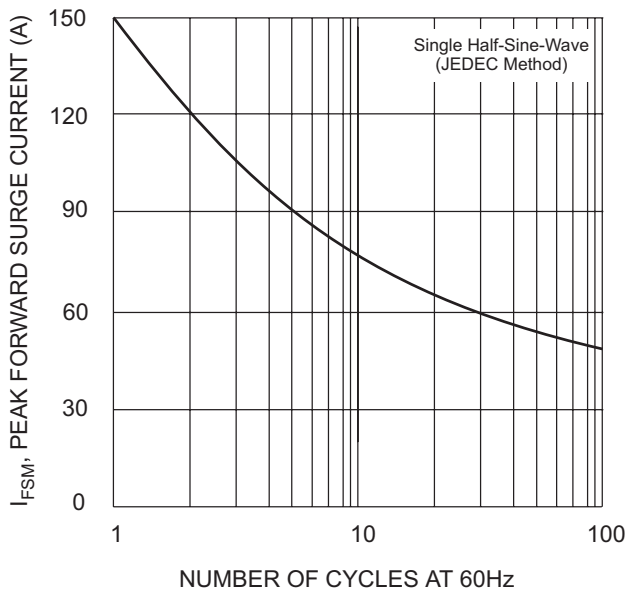


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

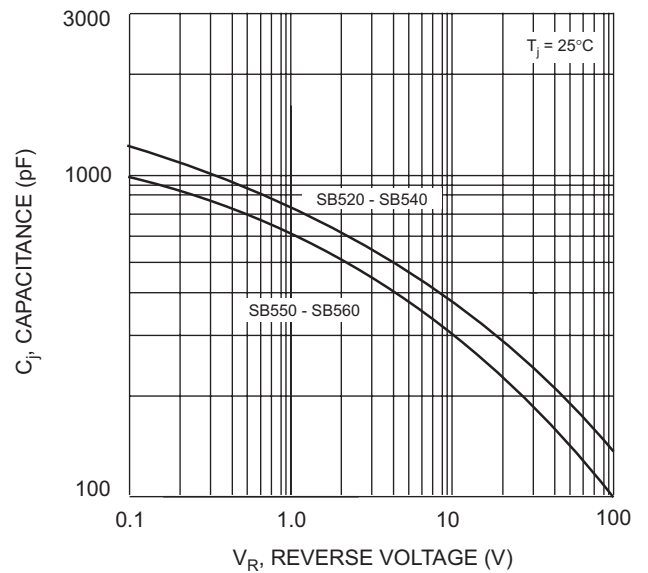


Fig. 4 Typical Junction Capacitance

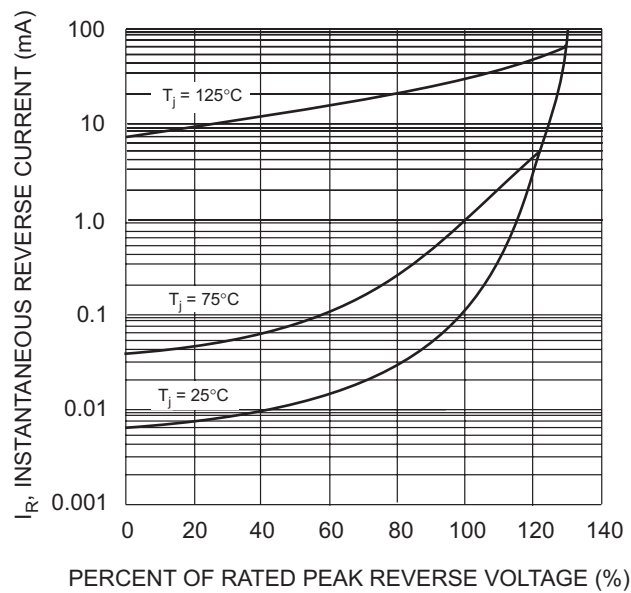


Fig. 5 Typical Reverse Characteristics

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SB520-T3	DO-201AD	1200/Tape & Reel
SB520-TB	DO-201AD	1200/Tape & Box
SB520	DO-201AD	500 Units/Box
SB530-T3	DO-201AD	1200/Tape & Reel
SB530-TB	DO-201AD	1200/Tape & Box
SB530	DO-201AD	500 Units/Box
SB540-T3	DO-201AD	1200/Tape & Reel
SB540-TB	DO-201AD	1200/Tape & Box
SB540	DO-201AD	500 Units/Box
SB550-T3	DO-201AD	1200/Tape & Reel
SB550-TB	DO-201AD	1200/Tape & Box
SB550	DO-201AD	500 Units/Box
SB560-T3	DO-201AD	1200/Tape & Reel
SB560-TB	DO-201AD	1200/Tape & Box
SB560	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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We power your everyday.