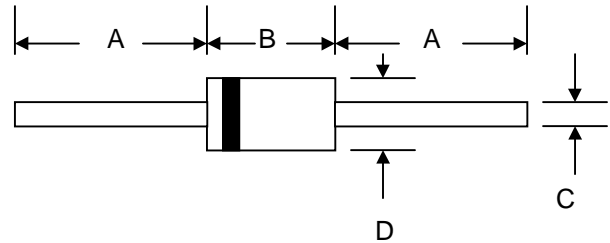


Features

- 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 @ $T_A=25^\circ\text{C}$ 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	V_{RRM}						V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60		
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	35	42	V	
Average Rectified Output Current (Note 1) @ $T_L = 100^\circ\text{C}$	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 @ $I_F = 5.0\text{A}$	V_{FM}	0.55			0.70		V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	0.5 50					mA	
Typical Junction Capacitance (Note 2)	C_j	550			400		pF	
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	10					K/W	
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150					$^\circ\text{C}$	

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.

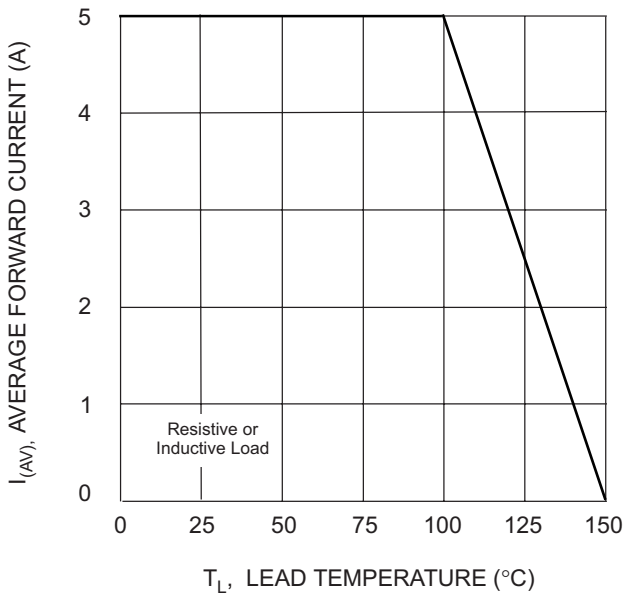


Fig. 1 Forward Current Derating Curve

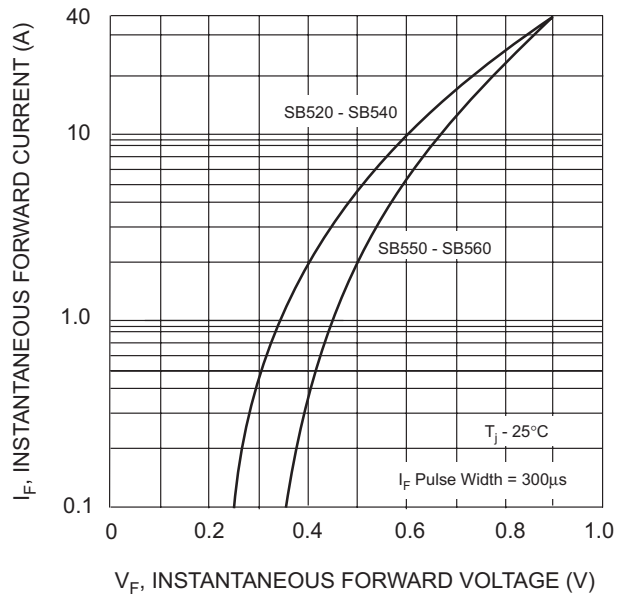


Fig. 2 Typical Forward Characteristics

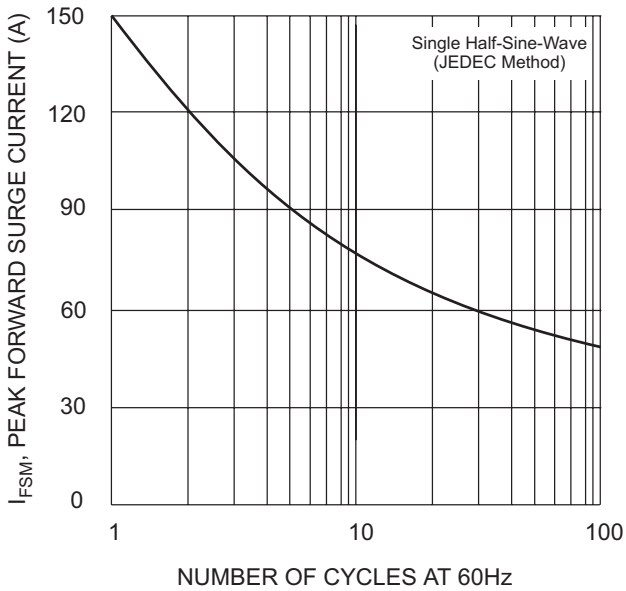


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

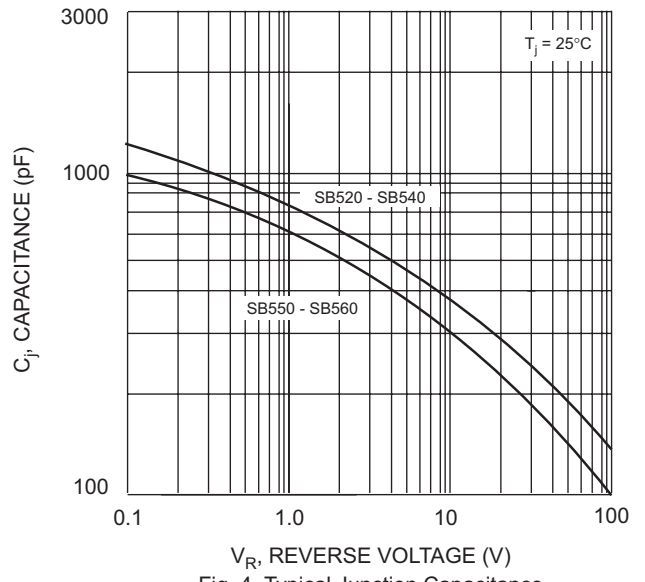


Fig. 4 Typical Junction Capacitance

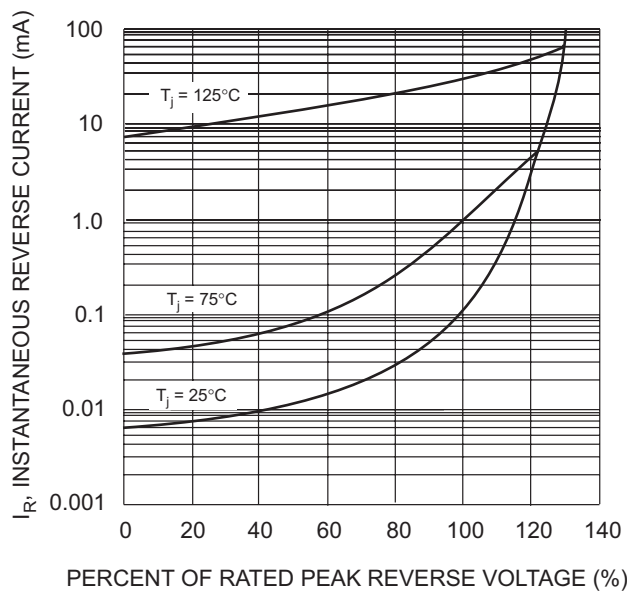


Fig. 5 Typical Reverse Characteristics

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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