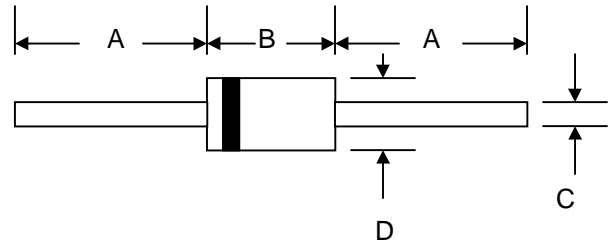


Features

- 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: 0.34 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

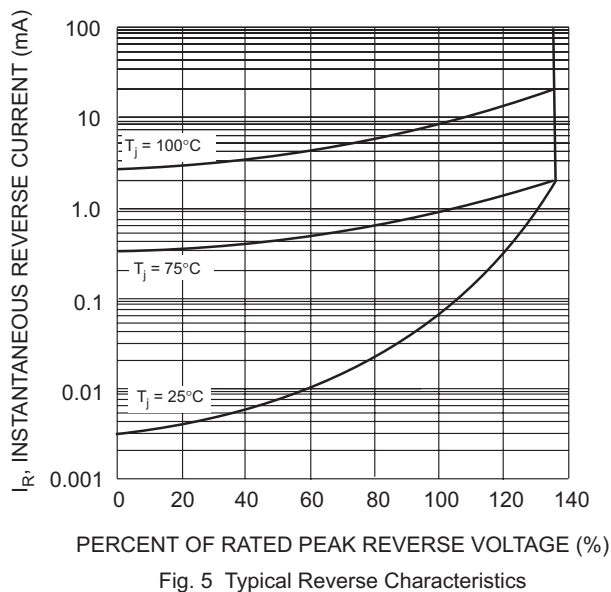
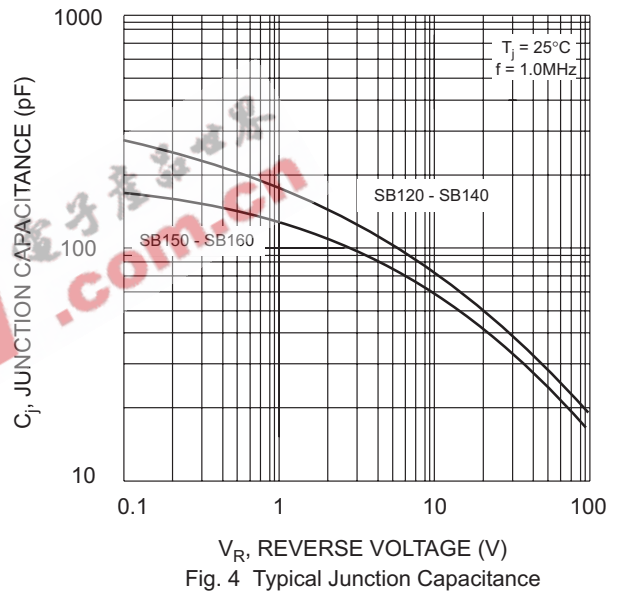
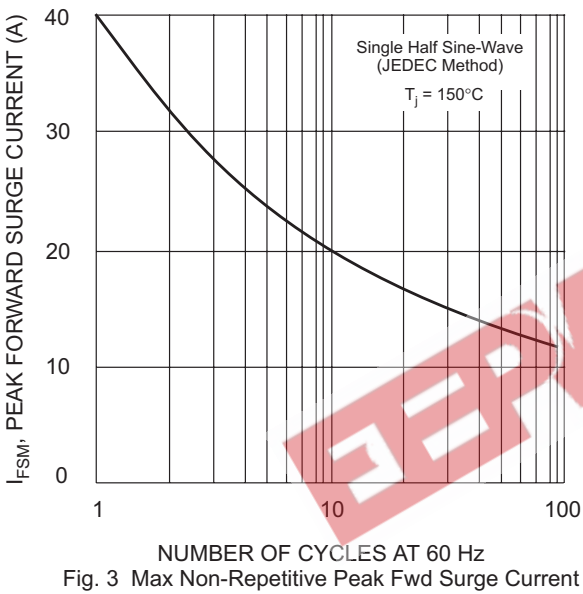
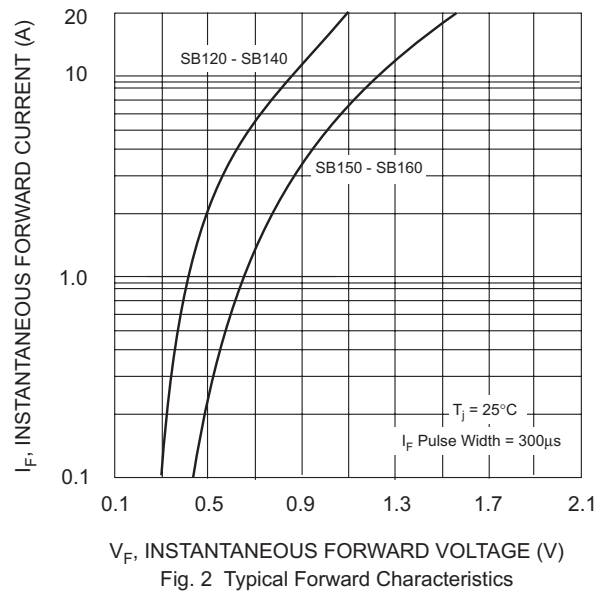
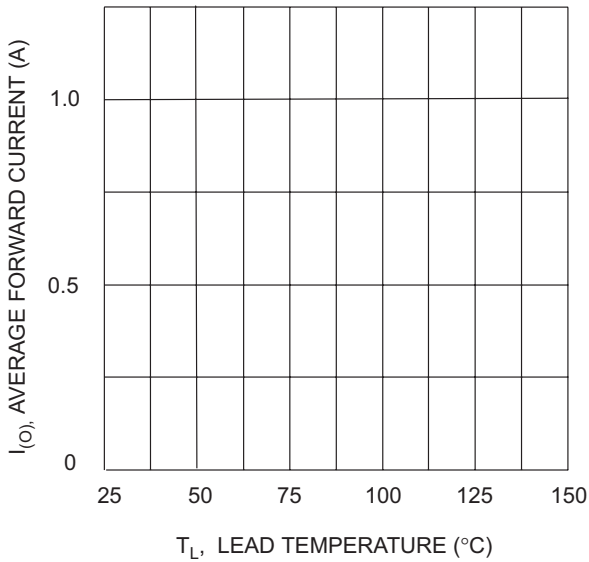
DO-41		
Dim	Min	Max
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

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	SB120	SB130	SB140	SB150	SB160	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	1.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40						A
Forward Voltage @ $I_F = 1.0\text{A}$	V_{FM}	0.50			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 10					mA	
Typical Junction Capacitance (Note 2)	C_j	110			80		pF	
Typical Thermal Resistance Junction to Lead	$R_{\theta JL}$	15					K/W	
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	50					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.



ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
SB120-T3	DO-41	5000/Tape & Reel
SB120-TB	DO-41	5000/Tape & Box
SB120	DO-41	1000 Units/Box
SB130-T3	DO-41	5000/Tape & Reel
SB130-TB	DO-41	5000/Tape & Box
SB130	DO-41	1000 Units/Box
SB140-T3	DO-41	5000/Tape & Reel
SB140-TB	DO-41	5000/Tape & Box
SB140	DO-41	1000 Units/Box
SB150-T3	DO-41	5000/Tape & Reel
SB150-TB	DO-41	5000/Tape & Box
SB150	DO-41	1000 Units/Box
SB160-T3	DO-41	5000/Tape & Reel
SB160-TB	DO-41	5000/Tape & Box
SB160	DO-41	1000 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.