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SB120 - SB1100

Features

- 1.0 ampere operation at T_A = 75°C with no thermal runaway.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.



COLOR BAND DENOTES CATHODE

Schottky Rectifiers

Absolute Maximum Ratings* T_A = 25°C unless otherwise noted

Symbol	Parameter		Value							
		120	130	140	150	160	180	1100		
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	100	V	
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ $T_A = 75^{\circ}C$	1.0					A			
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	30					А			
T _{stg}	Storage Temperature Range	-65 to +125					°C			
TJ	Operating Junction Temperature	-65 to +125					°C			

*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

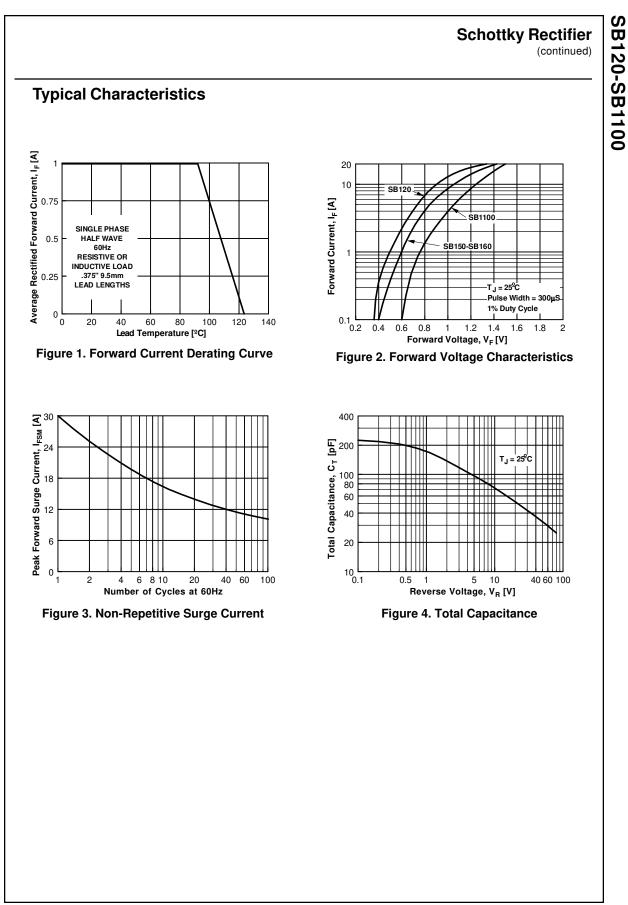
Thermal Characteristics

Symbol	Parameter	Value	Units	
PD	Power Dissipation	1.25	W	
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient	80	°C/W	

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter	Device							Units
		120	130	140	150	160	180	1100	
V _F	Forward Voltage @ 1.0 A	500 700 850				350	mV		
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.5 10					mA mA		
۱ _۳	Maximum Full Load Reverse Current, Full Cycle T _A = 75°C	30					mA		
C _T	Total Capacitance V _R = 4.0 V, f = 1.0 MHz	110					pF		

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Definition of Terms

Product Status	Definition
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	Formative or In Design First Production Full Production

Rev. H4

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