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SB320 - SB3100

Features

- 3.0 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.



DO-201AD COLOR BAND DENOTES CATHODE

Schottky Rectifiers

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

Symbol	Parameter		Units						
-		320	330	340	350	360	380	3100	
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	100	V
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ $T_A = 75^{\circ}C$	3.0						А	
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	80						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.

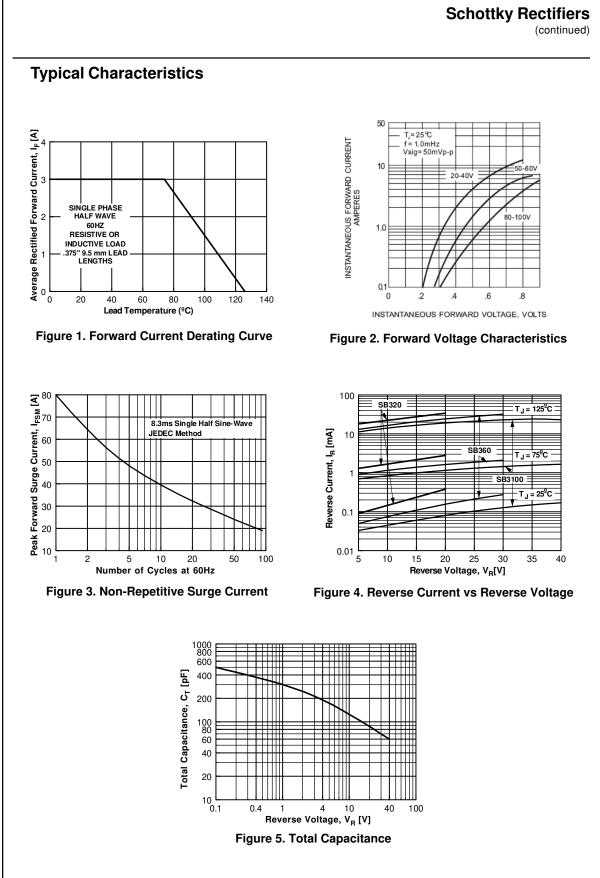
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	3.6	W
$R_{ ext{ hetaJA}}$	Thermal Resistance, Junction to Ambient	40	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Units						
		320	330	340	350	360	380	3100	
V _F	Forward Voltage @ 3.0 A	500			740		850		mV
I _R	Reverse Current @ rated V _R T _A = 25°C	0.5						mA	
	T _A = 100°C		20		1	0		10	mA
l _{rr}	Maximum Full Load Reverse Current, Full Cycle T _A = 100°C	30						mA	
C _T	Total Capacitance $V_B = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$	180						pF	

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SB320-SB3100, Rev. C

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