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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	Value							Units
-		320	330	340	350	360	380	3100	
V _{RRM}	Maximum Repetitive Reverse Voltage 20 30 40 50 60 80 1		100	V					
I _{F(AV)}	Average Rectified Forward Current 3.0 .375 " lead length @ $T_{A} = 75^{\circ}C$ 3.0				А				
I _{FSM}	Non-repetitive Peak Forward Surge Current 80 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		40	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 $T_A = 100^{\circ}C$		30						mA
C _T	Total Capacitance $V_R = 4.0 \text{ V}, \text{ f} = 1.0 \text{ MHz}$				180				pF

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SB320-SB3100, Rev. C

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.					
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Как с нами связаться

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