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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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SB520 - SB5100

Features

- Metal to silicon rectifier, majority carrier conduction.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.
- Low power loss, high efficiency.
- High current capability, low V_F
- High surge capacity.
- Glass passivated



DO-201AD COLOR BAND DENOTES CATHODE

Schottky Rectifiers

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

Symbol	Parameter		Units						
-		520	530	540	550	560	580	5100	
V _{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	100	V
I _{F(AV)}	Average Rectified Forward Current .375 " lead length @ $T_A = 75^{\circ}C$	5.0					А		
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	150					А		
T _{stg}	Storage Temperature Range	-50 to +150					°C		
TJ	Operating Junction Temperature	-50 to +150					°C		

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

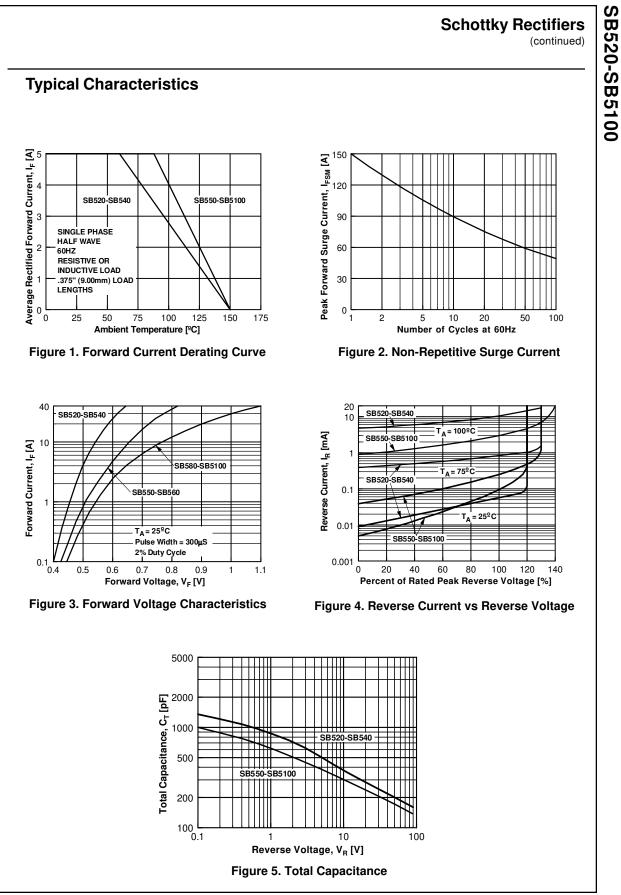
Thermal Characteristics

Symbol	Parameter	Value	Units
P _D	Power Dissipation	5.0	W
R _{eJA}	Thermal Resistance, Junction to Ambient	25	°C/W

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Units						
-		520	530	540	550	560	580	5100	
V _F	Forward Voltage @ 5.0 A	0.55			0.67		0.85		V
I _R	Reverse Current @ rated $V_R T_A = 25^{\circ}C$	0.5				mA			
	$T_A = 100^{\circ}C$	50			25				mA
C _T	Total Capacitance V _R = 4.0 V, f = 1.0 MHz	500			380				pF

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