

SS22 - S210

Features

- Glass passivated junctions.
- High current capability, low V_F.
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications.



SMB/DO-214AA COLOR BAND DENOTES CATHODE

Schottky Rectifiers

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

Symbol	Parameter		Value							
		22	23	24	25	26	28	29	210	1
V_{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
$I_{F(AV)}$	Average Rectified Forward Current 2.0 .375 " lead length @ T _A = 75°C			Α						
I _{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave 50			А						
T _{stg}	Storage Temperature Range -65 to +150			°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	1.3	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient *	75	°C/W

^{*}Device mounted on FR-4 PCB 0.013 mm.

Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Device							
		22	23	24	25	26	28	29	210	
V _F	Forward Voltage @ 2.0 A		500		700		850			mV
I _R	Reverse Current @ rated V_R $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.4 10			mA mA					

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Schottky Rectifiers

(continued)

Typical Characteristics

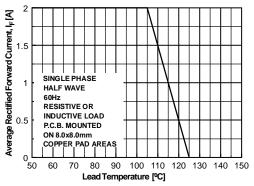


Figure 1. Forward Current Derating Curve

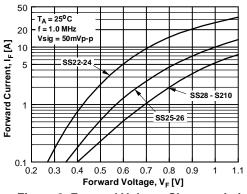


Figure 2. Forward Voltage Characteristics

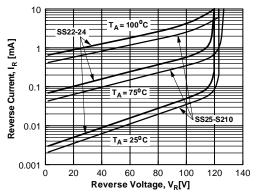


Figure 3. Reverse Current vs Reverse Voltage

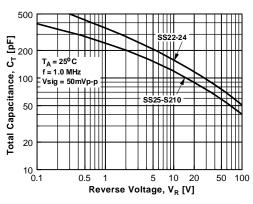


Figure 4. Total Capacitance

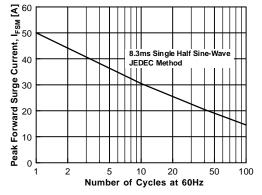


Figure 5. Non-Repetitive Surge Current

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