

Discrete POWER & Signal Technologies

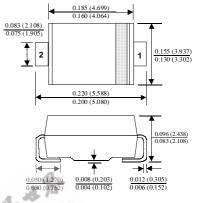
SS22 - S210

Features

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



SMB/DO-214AA
COLOR BAND DENOTES CATHODE



2.0 Ampere Schottky Barrier Rectifiers

Absolute Maximum Ratings*

T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
Io	Average Rectified Current	2.0	A
-	.375 " lead length @ T _A = 75°C		
İf(surge)	Peak Forward Surge Current	=-	
	8.3 ms single half-sine-wave	50	A
	Superimposed on rated load (JEDEC method)		
P_D	Total Device Dissipation	1.3	W
	Derate above 25°C	13	mW/°C
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient **	75	°C/W
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.

Electrical Characteristics

T_A = 25°C unless otherwise noted

Parameter		Device							Units
	22	23	24	25	26	28	29	210	
Peak Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	64	80	V
DC Reverse Voltage (Rated V _R)	20	30	40	50	60	80	90	100	V
Maximum Reverse Current $T_A = 25^{\circ}C$ (Note 1) @ rated V_R $T_A = 100^{\circ}C$	0.4 10						mA mA		
Maximum Forward Voltage @ 2.0 A		500		70	00		850		mV

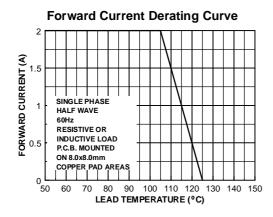
Note: Pulse Test: Pulse Width $\leq\!300~\mu\text{s},$ Duty Cycle $\leq\!2.0\%$

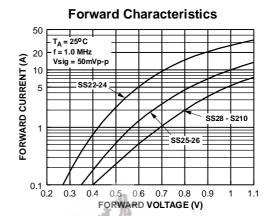
^{**}Device mounted on FR-4 PCB 0.013 mm.

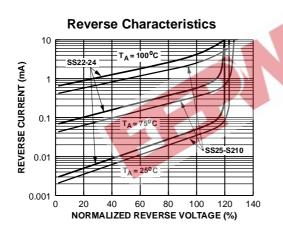
Schottky Barrier Rectifiers

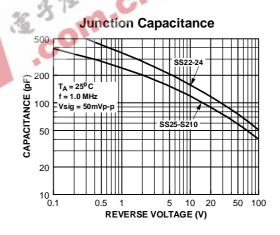
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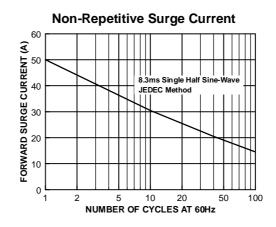
Typical Characteristics











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FACTTM QSTM

 $\begin{array}{lll} \text{FACT Quiet Series}^{\text{TM}} & \text{Quiet Series}^{\text{TM}} \\ \text{FAST}^{\tiny{\textcircled{\tiny{\$}}}} & \text{SuperSOT}^{\text{TM}}\text{-3} \\ \text{FASTr}^{\text{TM}} & \text{SuperSOT}^{\text{TM}}\text{-6} \\ \text{GTO}^{\text{TM}} & \text{SuperSOT}^{\text{TM}}\text{-8} \\ \text{HiSeC}^{\text{TM}} & \text{TinyLogic}^{\text{TM}} \end{array}$

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