

# Discrete POWER & Signal Technologies

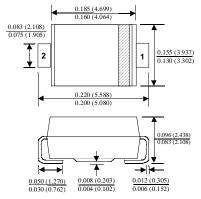
### SS22 - S210

### **Features**

- Glass passivated junctions.
- High current capability, low V<sub>F</sub>.
- 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	
I <sub>O</sub>	Average Rectified Current .375 " lead length @ T <sub>A</sub> = 75°C	2.0	А	
İf(surge)	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	А	
P <sub>D</sub>	Total Device Dissipation  Derate above 25°C	1.3 13	W mW/°C	
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient **	75	°C/W	
T <sub>stg</sub>	Storage Temperature Range	-65 to +150	°C	
TJ	Operating Junction Temperature	-65 to +125	°C	

<sup>\*</sup>These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

### **Electrical Characteristics**

T<sub>A</sub> = 25°C unless otherwise noted

Parameter		Device						Units	
	22	23	24	25	26	28	29	210	
Peak Repetitive Reverse Voltage		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 <sub>R</sub> )	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

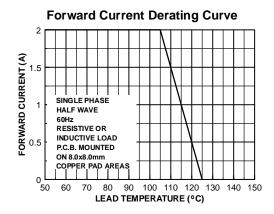
Note: Pulse Test: Pulse Width  $\leq\!300~\mu s,$  Duty Cycle  $\leq\!2.0\%$ 

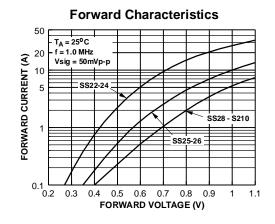
<sup>\*\*</sup>Device mounted on FR-4 PCB 0.013 mm.

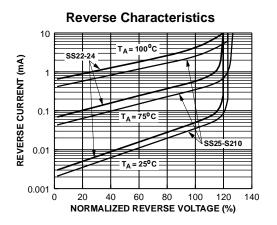
### **Schottky Barrier Rectifiers**

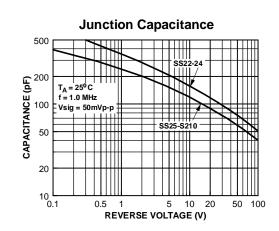
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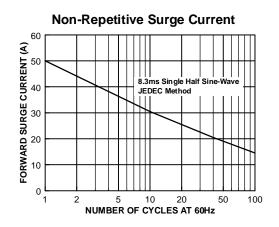
### **Typical Characteristics**











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