

## 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.



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# **Schottky Rectifiers**

### Absolute Maximum Ratings\* T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Value							
		22	23	24	25	26	28	29	210	
$V_{RRM}$	Maximum Repetitive Reverse Voltage		30	40	50	60	80	90	100	V
I <sub>F(AV)</sub>	Average Rectified Forward Current 2.0 375 " lead length @ $T_A = 75^{\circ}$ C				Α					
I <sub>FSM</sub>	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave 50			Α						
T <sub>stg</sub>	Storage Temperature Range -65 to +150			°C						
T <sub>J</sub>	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.

### **Thermal Characteristics**

Symbol	Parameter	Value	Units
P <sub>D</sub>	Power Dissipation	1.3	W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient *	75	°C/W

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

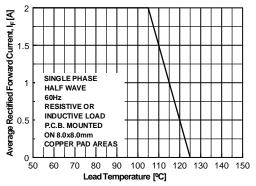
### **Electrical Characteristics** T<sub>A</sub> = 25°C unless otherwise noted

Symbol	Parameter		Device							
		22	23	24	25	26	28	29	210	
$V_{F}$	Forward Voltage @ 2.0 A		500		700		850			mV
I <sub>R</sub>	Reverse Current @ rated $V_R$ $T_A = 25^{\circ}C$ $T_A = 100^{\circ}C$	0.4 10			mA mA					

### **Schottky Rectifiers**

(continued)

## **Typical Characteristics**



**Figure 1. Forward Current Derating Curve** 

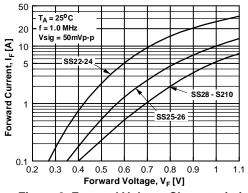


Figure 2. Forward Voltage Characteristics

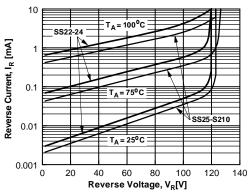


Figure 3. Reverse Current vs Reverse Voltage

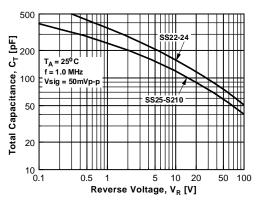


Figure 4. Total Capacitance

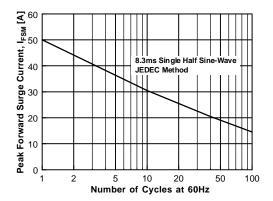


Figure 5. Non-Repetitive Surge Current

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