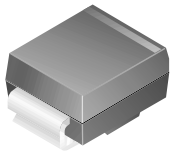
FAIRCHILD
SEMICONDUCTOR®

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								Units
		22	23	24	25	26	28	29	210	
V_{RRM}	Maximum Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
$I_{F(AV)}$	Average Rectified Forward Current .375 " lead length @ T_A = 75°C	2.0								A
I_{FSM}	Non-repetitive Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave	50								A
T_{stg}	Storage Temperature Range	-65 to +150								°C
T_J	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								Units
			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°C	0.4								mA
		T_A = 100°C	10								mA

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Typical Characteristics

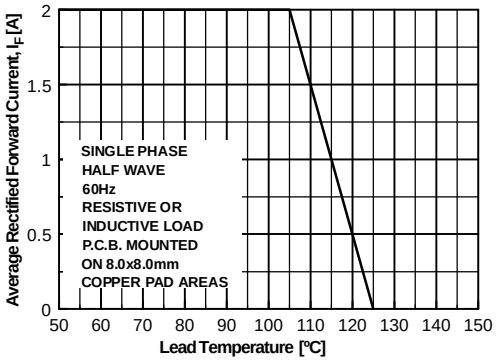


Figure 1. Forward Current Derating Curve

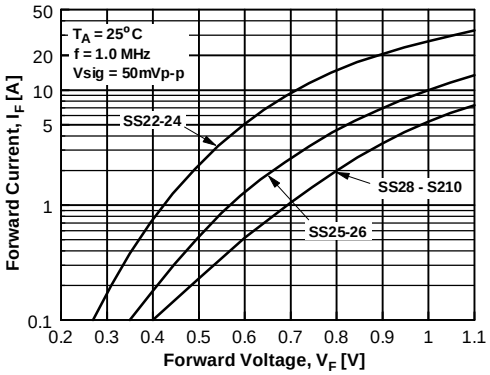


Figure 2. Forward Voltage Characteristics

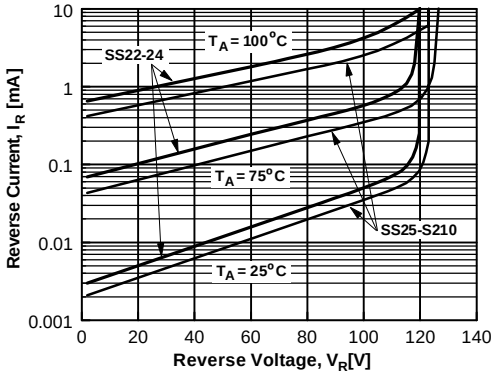


Figure 3. Reverse Current vs Reverse Voltage

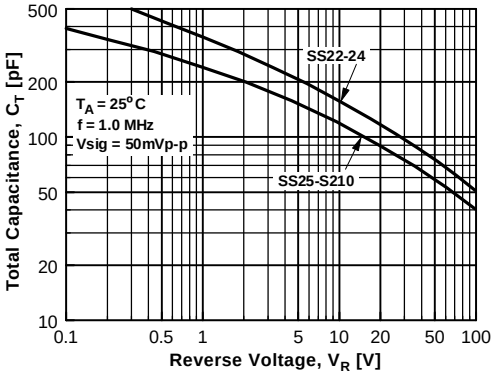


Figure 4. Total Capacitance

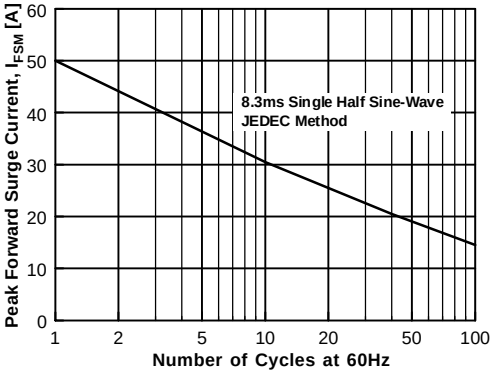


Figure 5. Non-Repetitive Surge Current

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DenseTrench™	GTO™	Power247™	SuperSOT™-6	
DOME™	HiSeC™	PowerTrench®	SuperSOT™-8	
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E^2CMOS™	LittleFET™	QS™	TinyLogic™	
EnSigna™	MicroFET™	QT Optoelectronics™	TruTranslation™	
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