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SS22 - S210 Schottky Rectifier

Features

- Glass-Passivated Junctions
- High-Current Capability, Low V_F

Applications

- Low Voltage
- High-Frequency Inverters
- Free Wheeling
- Polarity Protection

Description

The SS22-S210 series includes high-efficiency, low power loss, general-propose Schottky rectifiers. The clipbonded leg structure provides high thermal performance and low electrical resistance. These rectifier are suited for free wheeling, secondary rectification, and reverse polarity protection applications.



SMB/DO-214AA COLOR BAND DENOTES CATHODE

Ordering Information

Part Number	Part Number Marking		Packing Method			
SS22	SS22					
SS23	SS23					
SS24	SS24					
SS25	SS25	DO-214AA	Topo and Pool			
SS26	SS26	DO-214AA	Tape and Reel			
SS28	SS28					
SS29	SS29					
S210	S210					

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter	Value							Units		
Symbol	T arameter	SS22	SS23	SS24	SS25	SS26	SS28	SS29	S210	Units	
V _{RRM}	Maximum Repetitive Reverse Voltage		30	40	50	60	80	90	100	V	
I _{F(AV)}	Maximum Average Forward Current: 0.375-inch Lead Length at $T_A = 75^{\circ}C$									А	
I _{FSM}	Non-Repetitive Peak Forward Surge Current: 8.3 ms Single Half-Sine Wave									А	
T _{STG}	Storage Temperature Range		-65 to +150							°C	
Т _Ј	Operating Junction Temperature		-65 to +125							°C	

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SS22 - S210 Rev. 1.1.2

Thermal Characteristics⁽¹⁾

Symbol	Parameter	Value	Units
PD	Power Dissipation	1.3	W
R _{0JA} Thermal Resistance, Junction to Ambient ⁽¹⁾		75	°C/W

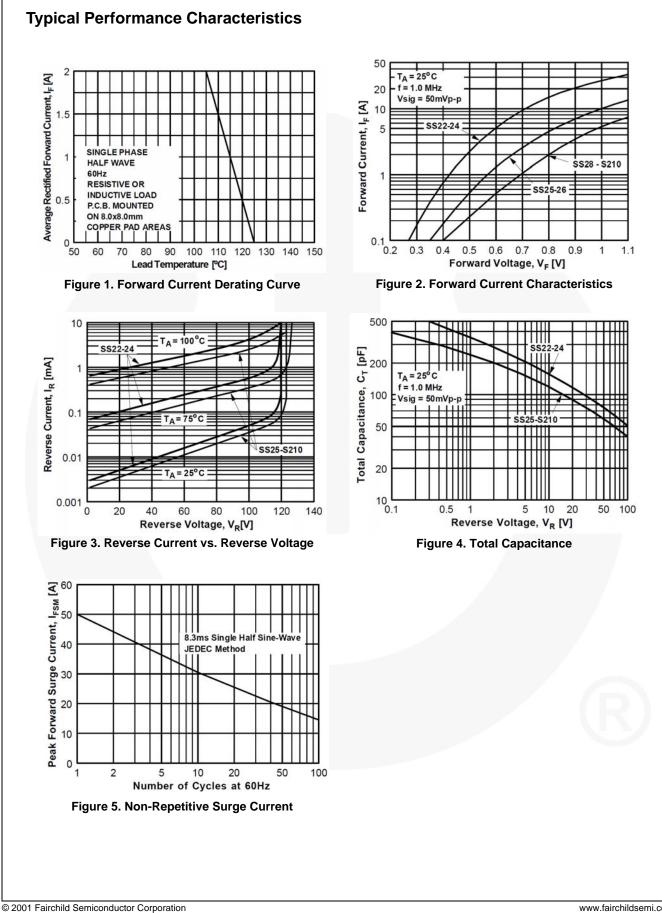
Note:

1. Device mounted on FE-4 PCB 0.013 mm.

Electrical Characteristics

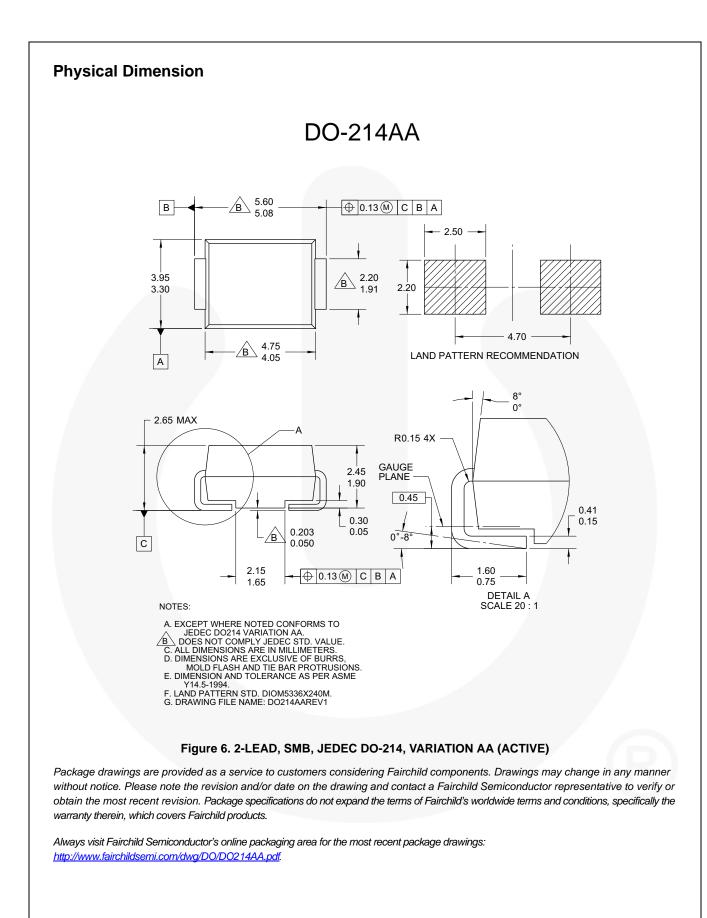
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

Cumb al	Devementer	Test	Value								
Symbol	Parameter	Conditions	SS22	SS23	SS24	SS25	SS26	SS28	SS29	S210	Units
V _F	Forward Voltage	I _F = 2.0 A		500		700		850		mV	
	Reverse Current	$T_A = 25^{\circ}C$				0	.4				mA
^{IR} at Rated V _R		$T_A = 100^{\circ}C$				1	0				IIIA



SS22 - S210 Rev. 1.1.2

SS22 - S210 — Schottky Rectifier



SS22 - S210 — Schottky Rectifier

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Definition of Terms		
Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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