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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	Marking	Package	Packing Method		
SS22	SS22				
SS23	SS23				
SS24	SS24				
SS25	SS25	DO-214AA	Tapa and Roal		
SS26	SS26	DU-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	of Farameter		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 $T_A = 75^{\circ}C$	2.0				А				
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						
Т _Ј	Operating Junction Temperature -65 to +125			°C						

Thermal Characteristics⁽¹⁾

Symbol	Parameter	Value	Units
PD	Power Dissipation	1.3	W
$R_{ extsf{ heta}JA}$	Thermal Resistance, Junction to Ambient ⁽¹⁾	75	°C/W

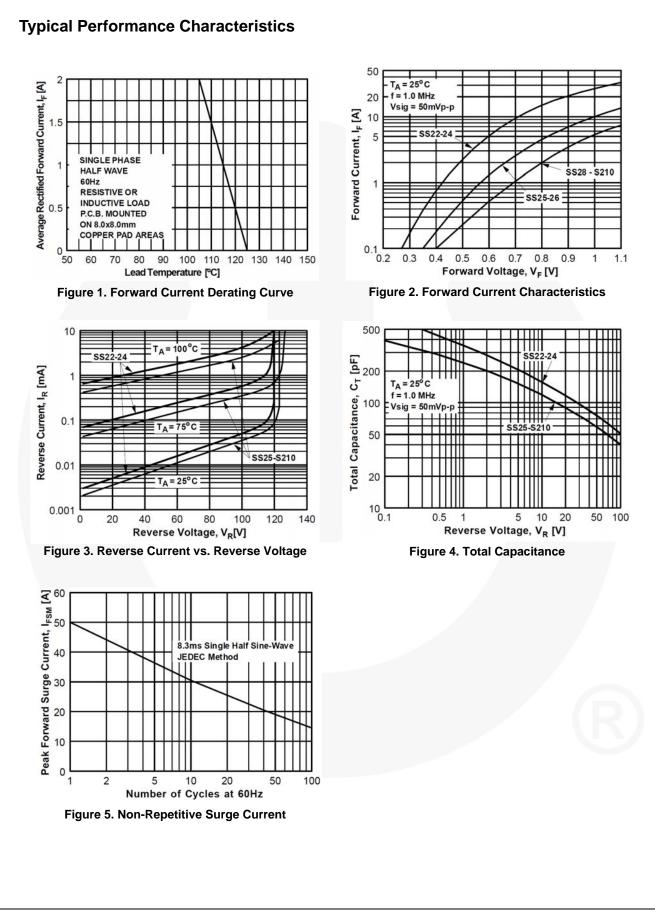
Note:

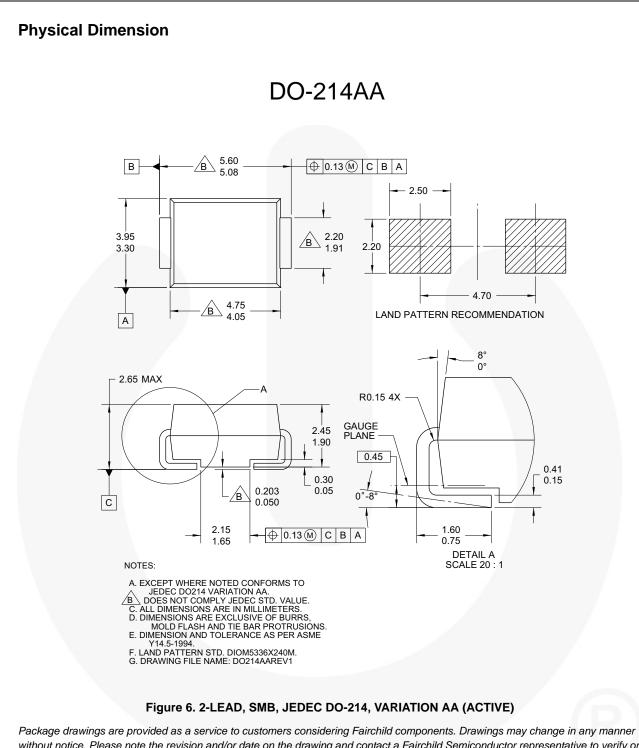
1. Device mounted on FE-4 PCB 0.013 mm.

Electrical Characteristics

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

Symbol Devenator		Test	Value								Unito
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°C	0.4			mA					
^I R	at Rated V _R	$T_A = 100^{\circ}C$	10			ША					





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Definition of	Terms
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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.
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