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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	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	Tarameter	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 $T_A = 75^{\circ}C$		2.0							А	
I _{FSM}	I _{FSM} Non-Repetitive Peak Forward Surge Current: 8.3 ms Single Half-Sine Wave		50						А		
T _{STG}	Storage Temperature Range		-65 to +150							°C	
Τ _J	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

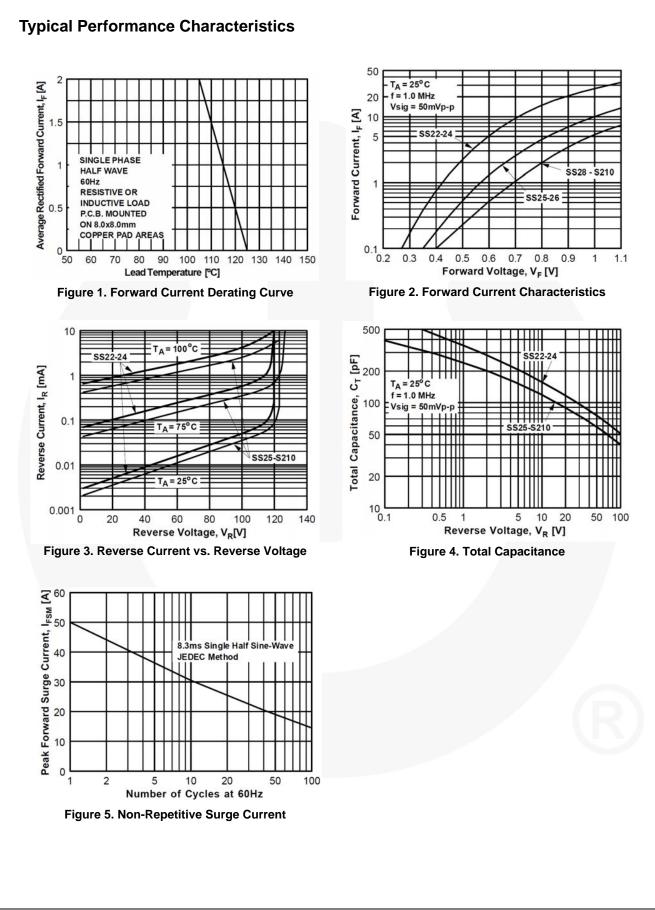
Note:

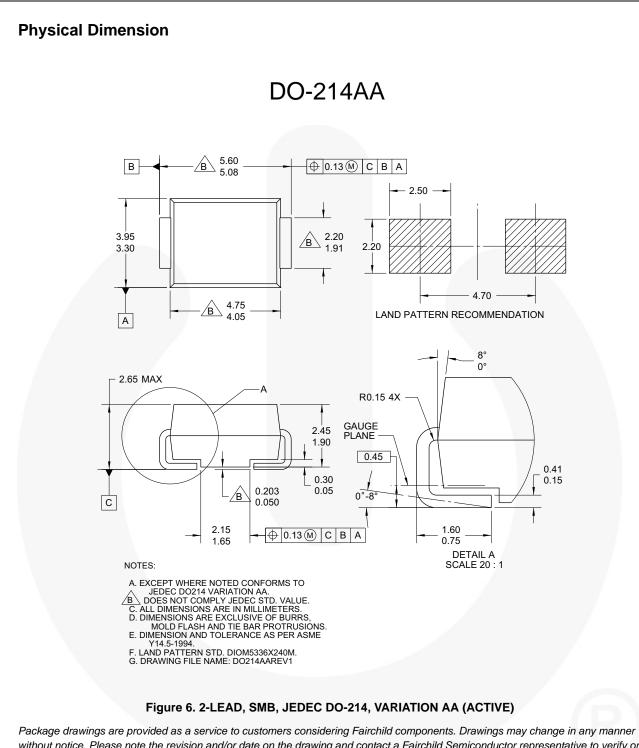
1. Device mounted on FE-4 PCB 0.013 mm.

Electrical Characteristics

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

Cumhal	Devementer	Test		Value						Units		
Symbol	Parameter	Conditions	SS22	22 SS23 SS24 SS25 SS26 SS28 SS29 S		S210	Units					
V _F	Forward Voltage	I _F = 2.0 A		500		70	00		850		mV	
	Reverse Current	T _A = 25°C				0	.4				mA	
^I R	at Rated V _R	$T_A = 100^{\circ}C$				1	0					





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Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings: <u>http://www.fairchildsemi.com/dwg/DO/DO214AA.pdf</u>. SS22 - S210 — Schottky Rectifier

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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.				
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Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331