

SS12 - S100 Schottky Rectifier

Features

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

Applications

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

Description

The SS12-S100 series includes high-efficiency, low power loss, general-propose schottky rectifiers. The clip -bonded leg structure provides high thermal performance and low electrical resistance. These rectifiers are suited for free wheeling, secondary rectification, and reverse polarity protection applications.



SMA/DO-214AC COLOR BAND DENOTES CATHODE

Ordering Information

Part Number	Top Mark	Package	Packing Method		
SS12	SS12	DO-214AC (SMA)	Tape and Reel		
SS13	SS13	DO-214AC (SMA) Tape and R			
SS14	SS14	DO-214AC (SMA)	Tape and Reel		
SS15	SS15	DO-214AC (SMA)	Tape and Reel		
SS16	SS16	DO-214AC (SMA)	Tape and Reel		
SS18	SS18	DO-214AC (SMA)	Tape and Reel		
SS19	SS19	DO-214AC (SMA)	Tape and Reel		
S100	S100	DO-214AC (SMA) Tape and Reel			

January 2015

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							Unit
Symbol	Falameter	SS12	SS13	SS14	SS15	SS16	SS18	SS19	S100	Unit
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°C		1.0							А
I _{FSM}	Non-Repetitive Peak Forward Surge Current: 8.3 ms Single Half-Sine Wave				4	0				А
T _{STG}	Storage Temperature Range		-65 to +150							°C
Т _Ј	Operating Junction Temperature				-65 to	+125				°C

Thermal Characteristics

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

Symbol	Parameter	Value	Unit
PD	Power Dissipation	1.1	W
R_{\thetaJA}	Thermal Resistance, Junction-to-Ambient ⁽¹⁾	88	°C/W

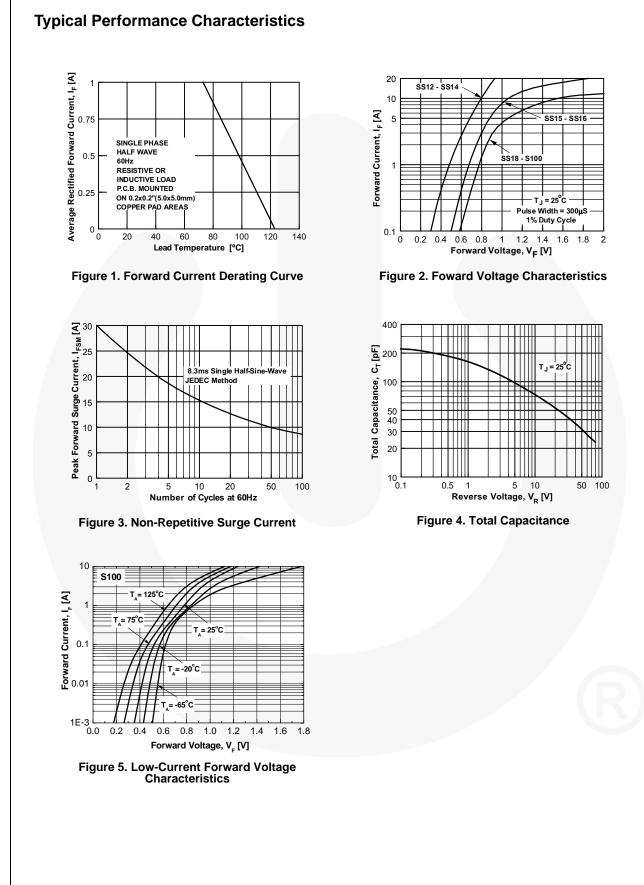
Note:

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

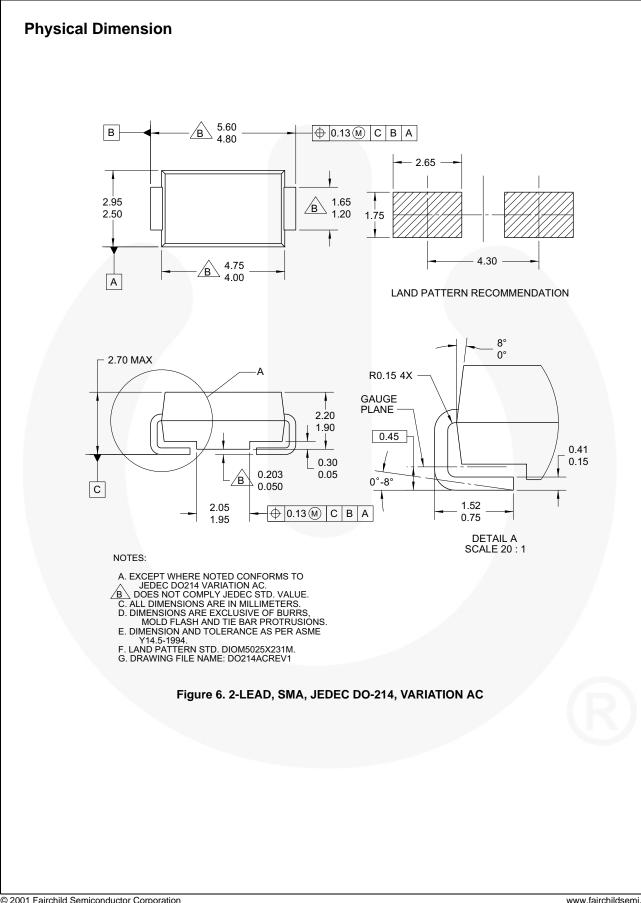
Electrical Characteristics

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

Symbol	Parameter	Conditions	Value						Unit		
Symbol	Symbol Farameter (SS12	SS13	SS14	SS15	SS16	SS18	SS19	S100	Unit
V _F	Maximum Forward Voltage	I _F = 1.0 A	500		700		850			mV	
	Maximum Reverse	$T_A = 25^{\circ}C$	0.2						mA		
IR	Current at Rated V _R	$T_A = 100^{\circ}C$				1	0		1		ШA



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