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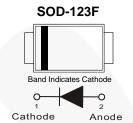
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SS13FL / SS14FL Surface Mount Schottky Barrier Rectifier

Features

- Ultra Thin Profile Maximum Height of 1.08 mm
- UL Flammability 94V-0 Classification
- MSL 1
- RoHS Compliant / Green Mold Compound
- Industrial Device Qualified per AEC-Q101 Standards. * see authorized use policy



Ordering Information

Part Number	Top Mark	Package	Packing Method
SS13FL	G3	SOD-123F	Tape and Reel
SS14FL	G4	SOD-123F	Tape and Reel

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	Va	Unit	
	Faranieter	SS13FL	SS14FL	
V _{RRM}	Peak Reverse Voltage	30	40	V
V _R	Reverse Voltage	30	40	V
I _{F(AV)}	Average Rectified Current at $T_A = 75^{\circ}C$ 1.0		.0	Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current at t = 8.3 ms	40		А
TJ	Operating Junction Temperature Range	-55 to +125		°C
T _{STG}	Storage Temperature Range	-55 to +125		°C

August 2015

Thermal Characteristics⁽¹⁾

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

Symbol	Parameter	Value	Unit
ΨJL	Typical Thermal Characteristics, Junction-to-Lead ⁽²⁾	25	°C/W
$R_{ extsf{ heta}JA}$	Typical Thermal Resistance, Junction-to-Ambient	140	°C/W

Note:

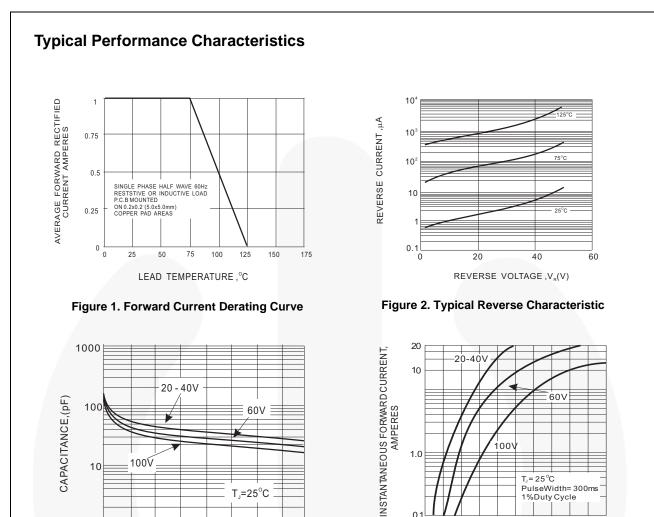
1. Per JESD51-3 recommended thermal test board. Device mounted on FR-4 PCB, board size = 76.2 mm x 114.3 mm.

2. Thermocouple soldered at cathode lead.

Electrical Characteristics

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

Symbol	Parameter	Condition	s	Min.	Тур.	Max.	Unit
ΒV _R	Reverse Breakdown Voltage	I _R = 500 μA	SS13FL	30			V
			SS14FL	40			
V _F	Forward Voltage	I _F = 1.0 A				0.55	V
I _R	Reverse Leakage Current	$V_{R} = V_{RRM}$				30	μA
T _{rr}	Reverse Recovery Time	I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	SS13FL		5.875		ns
			SS14FL		5.695		
CJ	Junction Capacitance	V _R = 0			60		pF



30

40

20

V_R, REVERSE VOLTAGE(VOLTS)

Figure 3. Typical Junction Characteristic

0.

.5 .7 .8 .9

Figure 4. Typical Instantaneous Forward Characteristics

1.1 1.3 1.5 1.7 1.9

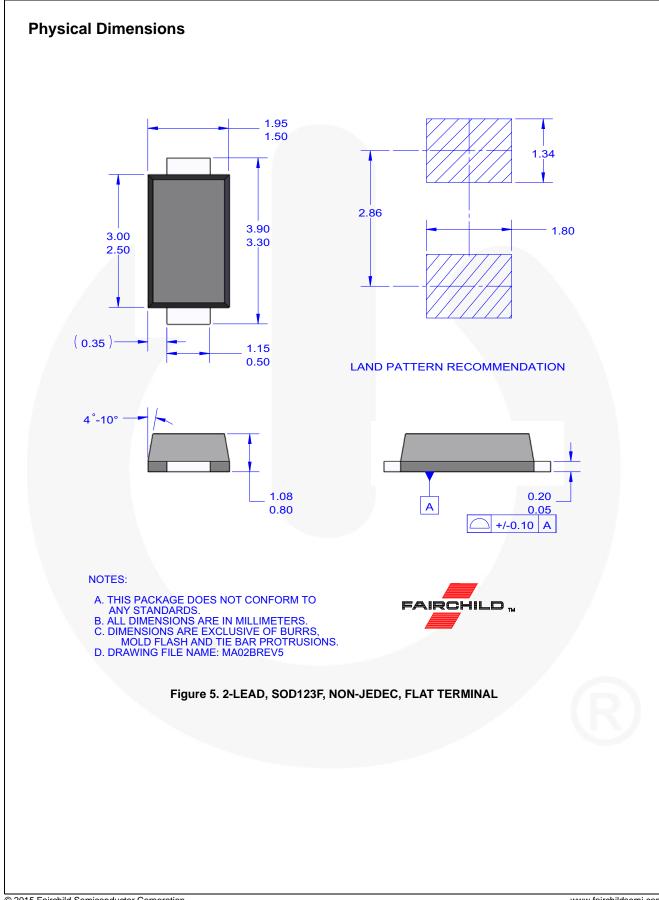
INSTANTANEOUS FORWARD VOLTAGE, VOLTS



10

0.1

0



SS13FL / SS14FL — Surface Mount Schottky Barrier Rectifier

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Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.

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