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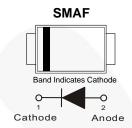
August 2015



FSV330AF / FSV340AF Schottky Barrier Rectifier

Features

- Low Forward Voltage Drop: 0.5 V Maximum at 3 A, T_A = 25°C
- Ultra Thin Profile Maximum Height of 1.0 mm
- High Surge Capacity
- 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
FSV330AF	FSV330AF	DO-214AD (SMAF)	Tape and Reel
FSV340AF	FSV340AF	DO-214AD (SMAF)	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		
Symbol	Falameter	FSV330AF	FSV340AF	onit	
V _{RRM}	Recurrent Peak Reverse Voltage	30	40	V	
V _{RMS}	RMS Reverse Voltage	21	28	V	
V _R	DC Blocking Voltage	30	40	V	
I _{F(AV)}	Average Forward Current 3		3	A	
I _{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		0	A	
TJ	Operating Junction Temperature Range	-55 to +150		°C	
T _{STG}	Storage Temperature Range	-55 to	°C		

FSV330AF / FSV340AF — Schottky Barrier Rectifier

Thermal Characteristics

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

Symbo	I Parameter	Value	Unit
ΨJL	Typical Thermal Characteristics, Junction-to-Lead ⁽¹⁾	20	°C/W
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient ⁽²⁾	150	°C/W

Notes:

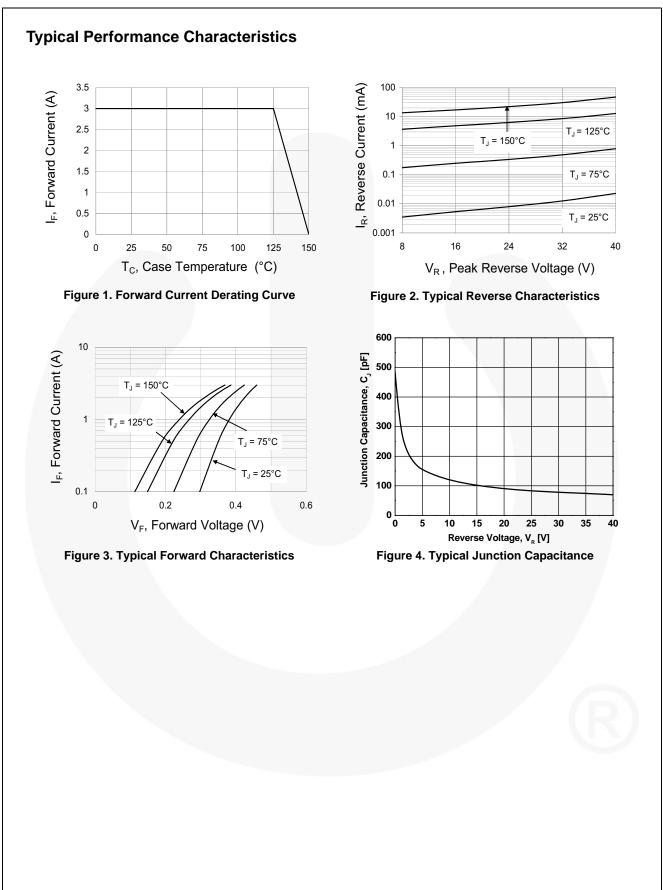
1. Mounted on FR4 PCB, single-sided copper, with 48cm² copper pad area.

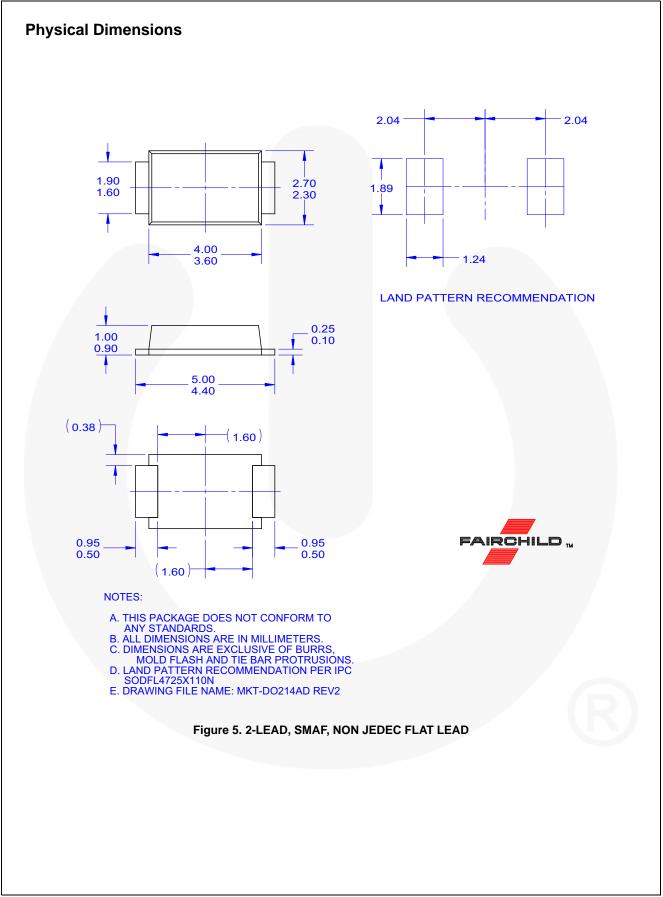
2. Mounted on FR4 PCB, single-sided copper, mini pad.

Electrical Characteristics

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

Symbol	Parameter	Conditions		Min.	Тур.	Max.	Unit
V _F	Forward Voltage	I _F = 3 A				0.5	V
I _R	Reverse Current	$V_R = V_{DC}, T_A = 85^{\circ}C$				100	μΑ
T _{rr} Reverse Recovery Time		$I_F = 0.5 \text{ A}, I_R = 1 \text{ A}, F$ $I_{rr} = 0.25 \text{ A}$	SV330AF		12.50		20
	I _{rr} = 0.25 A F	SV340AF		12.62		ns	
CJ	Junction Capacitance	V _R = 0 V, f = 1 MHz			485		pF





FSV330AF / FSV340AF

Schottky Barrier Rectifier

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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.
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.
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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