

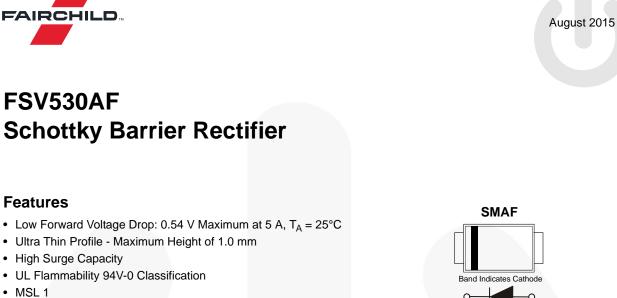
Is Now Part of



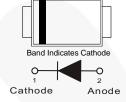
ON Semiconductor®

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- · 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
FSV530AF	FSV530AF	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	Value	Unit
V _{RRM}	Recurrent Peak Reverse Voltage	30	V
V _{RMS}	RMS Reverse Voltage	21	V
V _R	DC Blocking Voltage	30	V
I _{F(AV)}	Average Forward Current	5	А
I _{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	100	А
TJ	Operating Junction Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

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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⁾	15	°C/W
R_{\thetaJA}	Typical Thermal Resistance, Junction-to-Ambient	120	°C/W

Notes:

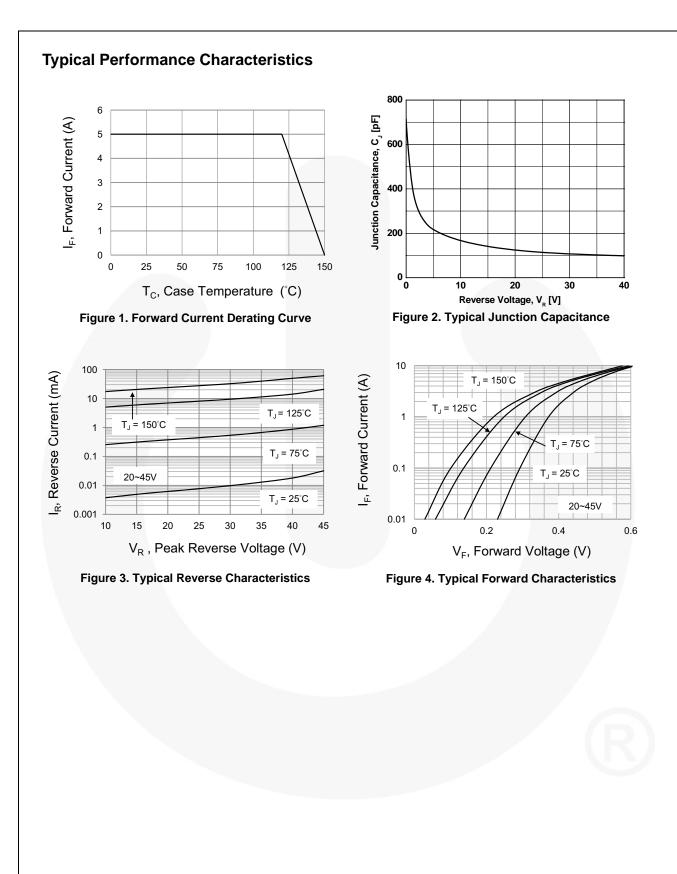
1. Per JESD51-3 recommended thermal test board. Device mounted on FR-4 PCB, board size = 76.2 mm x 114.3 mm.

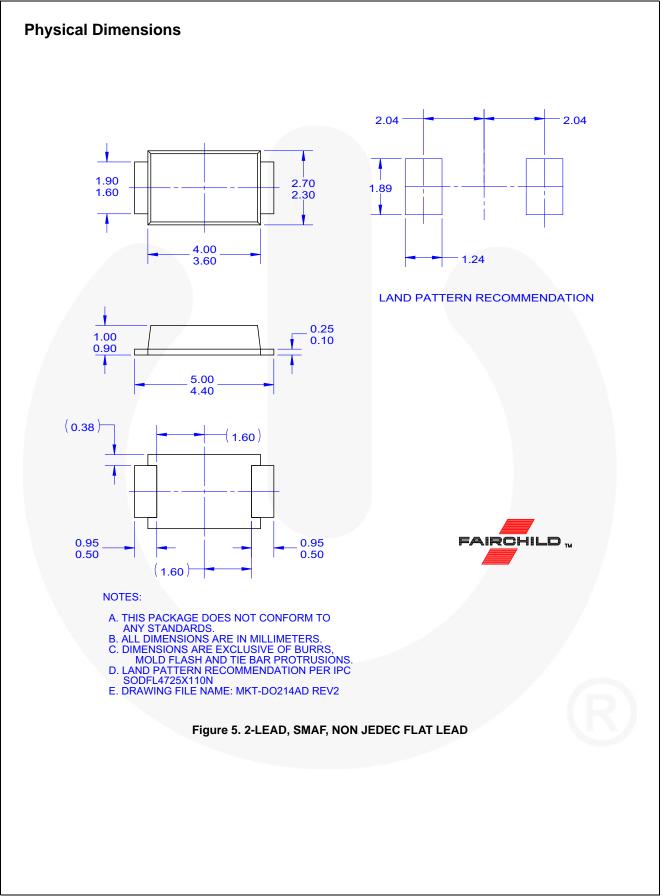
2. Thermocouple soldered at cathode lead.

Electrical Characteristics

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

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
V _F	Forward Voltage	I _F = 5 A			0.54	V
I _R	Reverse Current	V _R = 30 V			100	μΑ
T _{rr}	Reverse Recovery Time	$I_{\rm F} = 0.5$ A, $I_{\rm R} = 1$ A, $I_{\rm rr} = 0.25$ A		15.72		ns
CJ	Junction Capacitance	V _R = 10 V, f = 1 MHz		159		pF





FSV530AF — Schottky Barrier Rectifier

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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.
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