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
- Green Mold Compound
- These Devices are Pb-Free, Halogen Free Free and are RoHS Compliant

Specifications

ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{RRM}	Recurrent Peak Reverse Voltage	40	V
V _{RMS}	RMS Reverse Voltage	28	V
V _R	DC Blocking Voltage	40	V
I _{F(AV)}	Average Forward Current	3	Α
I _{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	80	A
TJ	Operating Junction Temperature Range	-55 to +150	°C
T _{STG}	Storage Temperature Range	-55 to +150	°C

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

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Schottky Barrier Rectifier



DO-214AD (SMAF) CASE 403AD

MARKING DIAGRAM



Band Indicates Cathode

\$Y = ON Semiconductor Logo &Z = Assembly Plant Code &3 = Data Code (Year & Week) FSV340AF = Specific Device Code

ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

FSV340AF

THERMAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Characteristic	Value	Unit
$\Psi_{\sf JL}$	Typical Thermal Characteristics, Junction-to-Lead (Note 1)	20	°C/W
$R_{ heta JA}$	Typical Thermal Resistance, Junction-to-Ambient (Note 2)	150	°C/W

^{1.} Mounted on FR4 PCB, single-sided cooper, with 48 cm² pad area.

ELECTRICAL CHARACTERISTICS (T_A = 25°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
Trr	Reverse Recovery Time	I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	-	12.62	-	ns
CJ	Junction Capacitance	V _R = 0 V, f = 1 MHz	-	485	-	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

ORDERING INFORMATION

Part Number	Top Mark	Package	Shipping [†]
FSV340AF	FSV340AF	DO-214AD (SMAF) (Pb-Free/Halogen Free)	10000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

^{2.} Mounted on FR4 PCB, single-sided cooper, mini pad

FSV340AF

TYPICAL PERFORMANCE CHARACTERISTICS

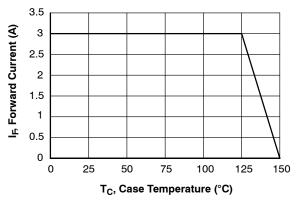


Figure 1. Forward Current Derating Curve

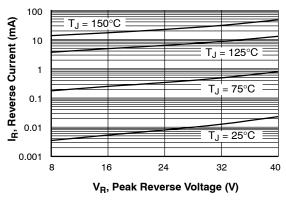


Figure 2. Typical Reverse Characteristics

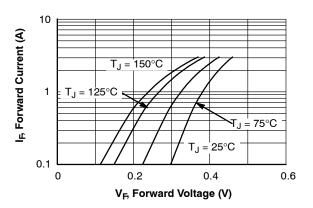


Figure 3. Typical Forward Characteristics

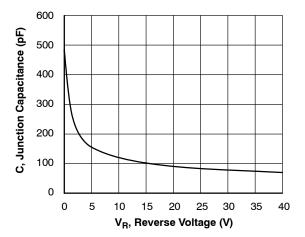


Figure 4. Typical Junction Capacitance



CATHODE IDENTIFIER

// 0.05 C



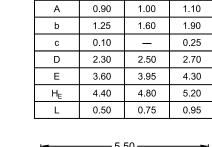
В

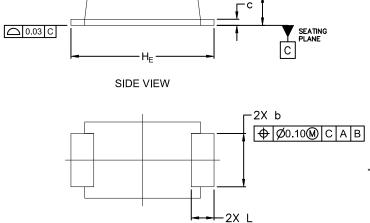
DATE 14 JUL 2020



- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2009. CONTROLLING DIMENSION: MILLIMETERS DIMENSIONS D & E ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR EXTRUSIONS.

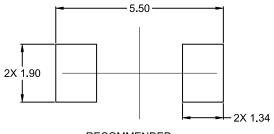
	MILLIMETERS		
DIM	MIN.	NOM.	MAX.
Α	0.90	1.00	1.10
b	1.25	1.60	1.90
С	0.10	_	0.25
D	2.30	2.50	2.70
Е	3.60	3.95	4.30
HE	4.40	4.80	5.20
L	0.50	0.75	0.95





TOP VIEW

BOTTOM VIEW



RECOMMENDED MOUNTING FOOTPRINT*

For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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