Surface Mount Schottky Barrier Rectifier

Features

- Low Forward Voltage Drop: 0.5 V Maximum at 2 A, $T_A = 25^{\circ}C$
- 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)

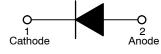
Symbol	Rating	Value	Unit
V _{RRM}	Recurrent Peak Reverse Voltage	40	V
V _{RMS}	RMS Reverse Voltage	28	V
V _R	DC Blocking Voltage	40	V
I _{F(AV)}	Average Forward Current	2	А
I _{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	50	A
TJ	Operating Junction 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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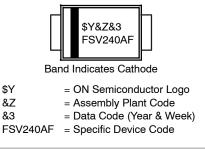


Schottky Barrier Rectifier



(SMAF) CASE 403AD

MARKING DIAGRAM



ORDERING INFORMATION

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

FSV240AF

THERMAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted) (Note 1)

Symbol	Characteristic	Value	Unit
Ψ_{JL}	Typical Thermal Characteristics, Junction-to-Lead (Note 2)	15	°C/W
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient	120	°C/W

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 (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V _F	Forward Voltage	I _F = 2.0 A	-	-	0.5	V
I _R	Reverse Current	V _R = 40 V	-	-	0.1	mA
Trr	Reverse Recovery Time	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A}, I_{rr} = 0.25 \text{ A}$	-	9.65	-	ns
CJ	Junction Capacitance	V _R = 4 V, f = 1 MHz	-	98	-	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.

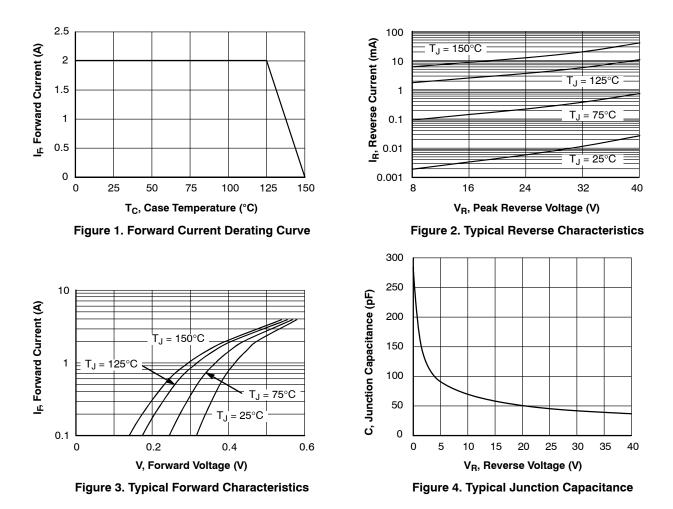
ORDERING INFORMATION

Part Number	Top Mark	Package	Shipping [†]
FSV240AF	FSV240AF	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.

FSV240AF

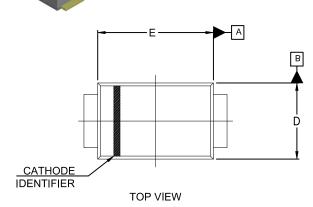
TYPICAL PERFORMANCE CHARACTERISTICS

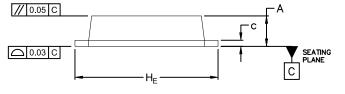




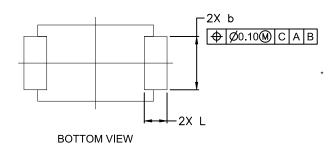
SMA-FL CASE 403AD **ISSUE A**

DATE 14 JUL 2020





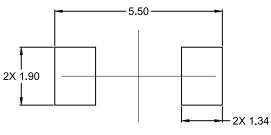
SIDE VIEW



1. 2. 3.

I ES: 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.	
А	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	
E	3.60	3.95	4.30	
H _E	4.40	4.80	5.20	
L	0.50	0.75	0.95	



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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