

FSV340FP, FSV360FP

Surface Mount Schottky Barrier Rectifier

Features

- Low Forward Voltage Drop:
 - ◆ FSV340FP: 0.52 V Maximum at 3 A, $T_A = 25^\circ\text{C}$
 - ◆ FSV360FP: 0.65 V Maximum at 3 A, $T_A = 25^\circ\text{C}$
- Larger Cathode Pad for Improved Power Dissipation
- 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 and are RoHS Compliant

Specifications

ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

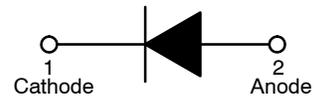
Symbol	Parameter	Value		Unit
		FSV340FP	FSV360FP	
V_{RRM}	Recurrent Peak Reverse Voltage	40	60	V
V_{RMS}	RMS Reverse Voltage	28	42	V
V_R	DC Blocking Voltage	40	60	V
$I_{F(AV)}$	Average Forward Current at $T_L = 75^\circ\text{C}$	3		A
I_{FSM}	Peak Forward Surge Current: 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	80		A
T_J	Operating Junction Temperature Range	-55 to +150		$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150		$^\circ\text{C}$

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



SOD-123EP
CASE 425AC

MARKING DIAGRAM



Band Indicates Cathode

- &Y = Binary Calendar Year Coding Scheme
- &Z = Assembly Plant Code
- * = Specific Device Code
EC, ED
- &G = Single Digit Weekly Data Code

ORDERING INFORMATION

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

FSV340FP, FSV360FP

Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted) (Note 1)

Symbol	Characteristic	Value	Unit
Ψ_{JL}	Typical Thermal Characteristics, Junction-to-Lead (Note 2)	10	$^\circ\text{C/W}$
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient	140	$^\circ\text{C/W}$

- Per JEDEC51-3 recommended thermal test board. Device mounted on FR-4 PCB, board size = 76.2 mm x 114.3 mm.
- Thermocouple soldered at cathode lead.

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V_F	Forward Voltage	$I_F = 3\text{ A}$	FSV340FP	-	-	0.52	V
			FSV360FP	-	-	0.65	
I_R	Reverse Current	$V_R = 40\text{ V}$	FSV340FP	-	-	160	μA
		$V_R = 60\text{ V}$	FSV360FP	-	-	100	
T_{rr}	Reverse Recovery Time	$I_F = 0.5\text{ A}, I_R = 1\text{ A}, I_{rr} = 0.25\text{ A}$	FSV340FP	-	12.37	-	ns
			FSV360FP	-	10.62	-	

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†
FSV340FP	EC	SOD-123EP (Pb-Free/Halogen Free)	3000 / Tape & Reel
FSV360FP	ED	SOD-123EP (Pb-Free/Halogen Free)	3000 / 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.

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TYPICAL PERFORMANCE CHARACTERISTICS

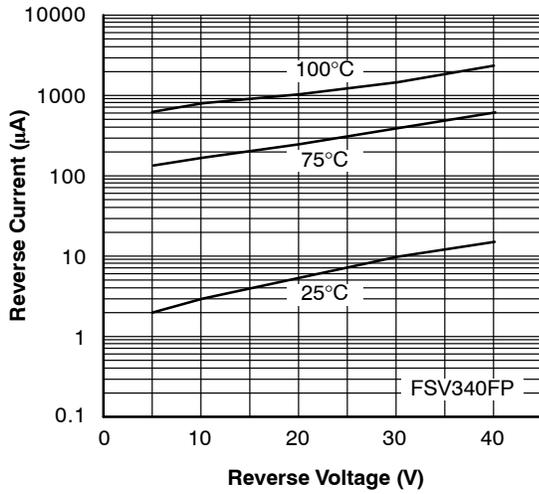


Figure 1. Typical Reverse Characteristics

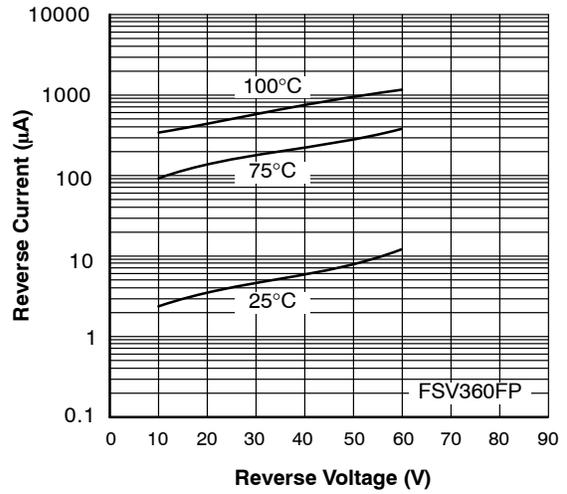


Figure 2. Typical Reverse Characteristics

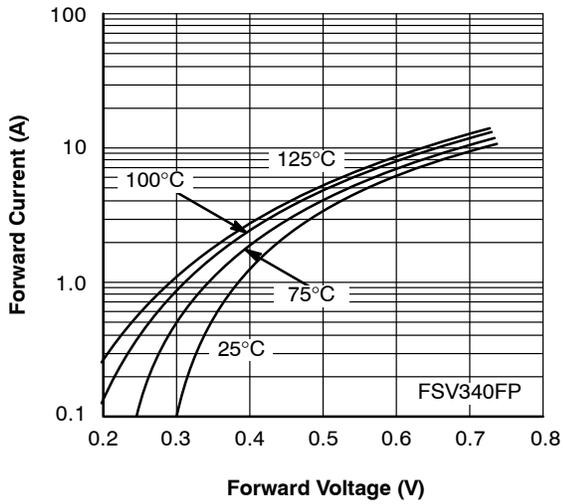


Figure 3. Typical Forward Characteristics

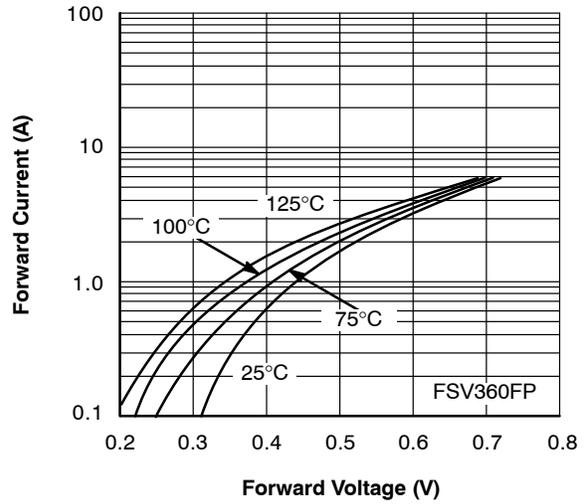


Figure 4. Typical Forward Characteristics

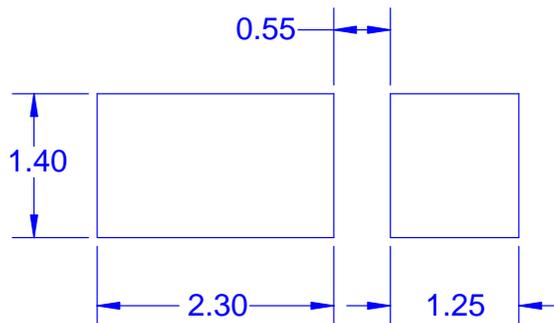
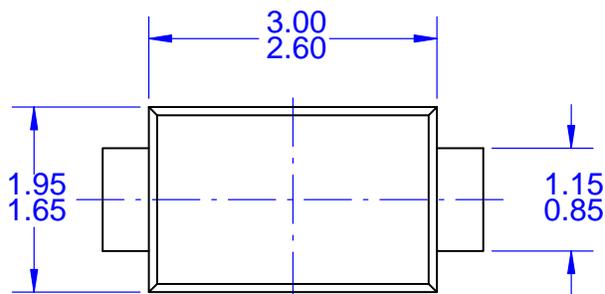
MECHANICAL CASE OUTLINE
PACKAGE DIMENSIONS

ON Semiconductor®

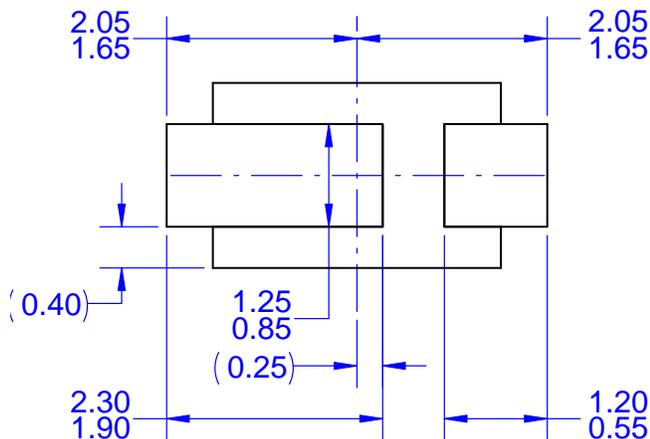
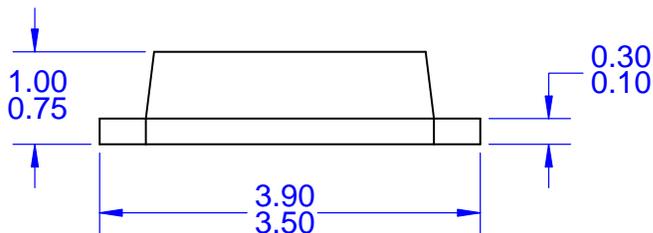


SOD-123EP
CASE 425AC
ISSUE O

DATE 31 AUG 2016



LAND PATTERN RECOMMENDATION



NOTES:

- A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE.
- B. ALL DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.

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