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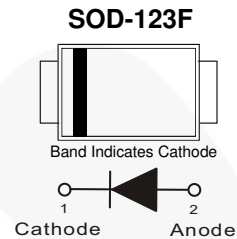


August 2015

SS24FL / SS26FL Surface Mount Schottky Barrier Rectifier

Features

- Ultra Thin Profile – Maximum Height of 1.08 mm
- 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
SS24FL	GP	SOD-123F	Tape and Reel
SS26FL	GQ	SOD-123F	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 $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Value		Unit
		SS24FL	SS26FL	
V_{RRM}	Peak Reverse Voltage	40	60	V
V_R	Reverse Voltage	40	60	V
$I_{F(AV)}$	Average Rectified Current at $T_A = 75^\circ\text{C}$	2.0		A
I_{FSM}	Non-Repetitive Peak Forward Surge Current at $t = 8.3 \text{ ms}$	50		A
T_J	Operating Junction Temperature Range	-55 to +125		$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +125		$^\circ\text{C}$

SS24FL / SS26FL — Surface Mount Schottky Barrier Rectifier

Thermal Characteristics

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

Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient ⁽¹⁾	60	$^\circ\text{C}/\text{W}$

Note:

1. Mounted with minimum recommended pad size, PC board FR4.

Electrical Characteristics

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

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Unit
BV_R	Reverse Breakdown Voltage	$I_R = 500 \mu\text{A}$	SS24FL	40		V
			SS26FL	60		
V_F	Forward Voltage	$I_F = 2.0 \text{ A}$	SS24FL		0.55	V
			SS26FL		0.70	
I_R	Reverse Leakage Current	$V_R = V_{RRM}$	SS24FL		100	μA
			SS26FL		40	
T_{rr}	Reverse Recovery Time	$I_F = 0.5 \text{ A}, I_R = 1 \text{ A}, I_{rr} = 0.25 \text{ A}$	SS24FL	9.495		ns
			SS26FL	8.260		

Typical Performance Characteristics

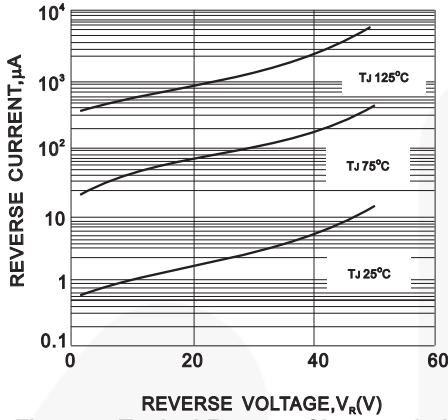


Figure 2. Typical Reverse Characteristic

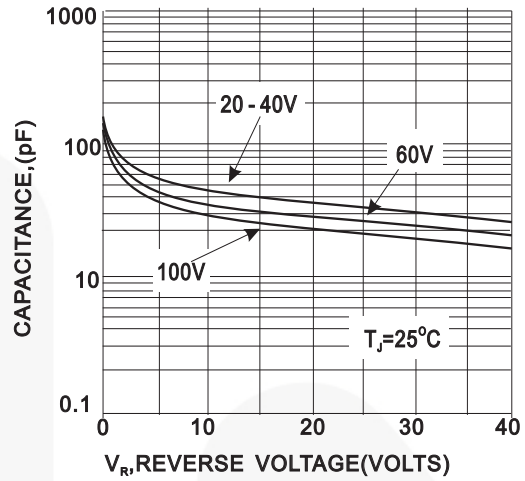


Figure 2. Typical Junction Characteristic

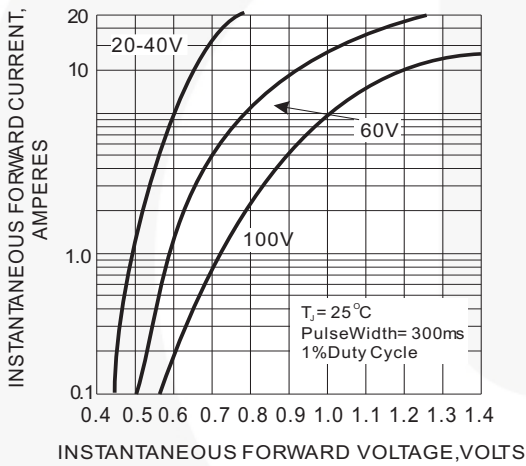
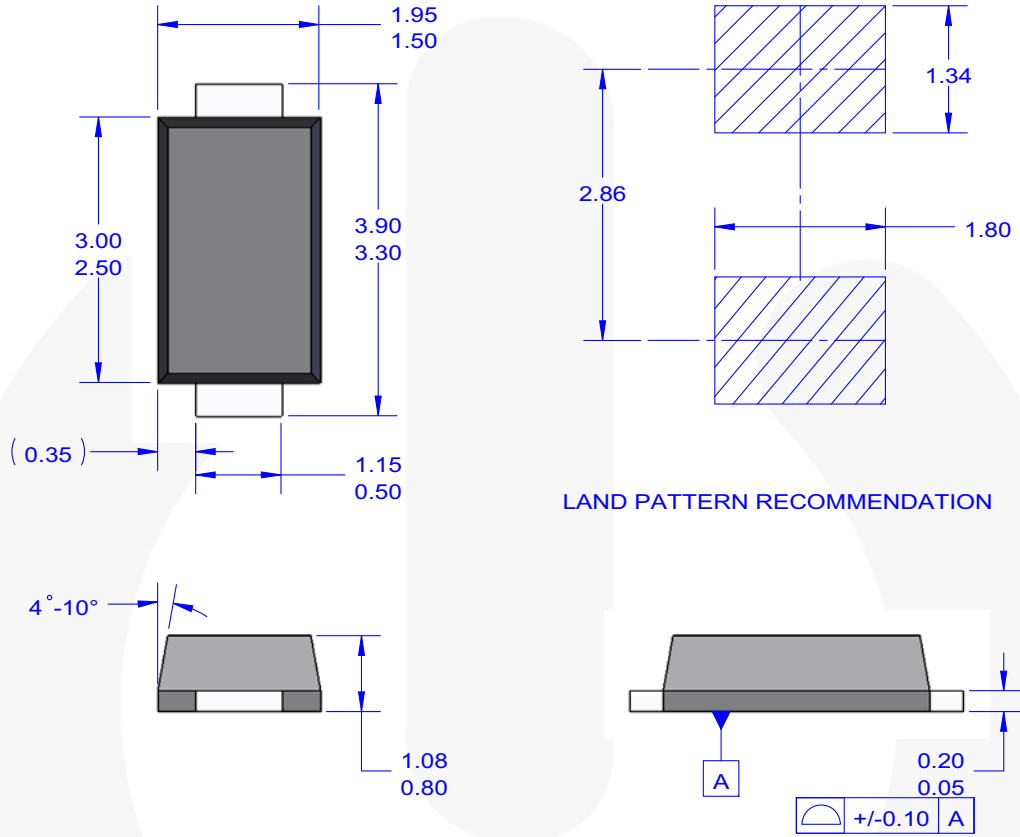


Figure 3. Typical Instantaneous Forward Characteristics

Physical Dimensions



NOTES:

- A. THIS PACKAGE DOES NOT CONFORM TO ANY STANDARDS.
- B. ALL DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH AND TIE BAR PROTRUSIONS.
- D. DRAWING FILE NAME: MA02BREV5




Figure 4. 2-LEAD, SOD123F, NON-JEDEC, FLAT TERMINAL





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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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