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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

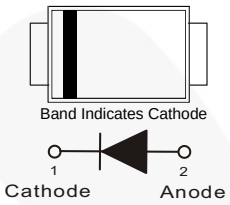
August 2015

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

SOD-123F



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°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°C	2.0		A
I_{FSM}	Non-Repetitive Peak Forward Surge Current at t = 8.3 ms	50		A
T_J	Operating Junction Temperature Range	-55 to +125		°C
T_{STG}	Storage Temperature Range	-55 to +125		°C

Thermal Characteristics

Values are at T_A = 25°C unless otherwise noted.

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

Note:

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

Electrical Characteristics

Values are at T_A = 25°C unless otherwise noted.

Symbol	Parameter	Conditions		Min.	Typ.	Max.	Unit
BV_R	Reverse Breakdown Voltage	I_R = 500 μA	SS24FL	40			V
			SS26FL	60			
V_F	Forward Voltage	I_F = 2.0 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 A, I_R = 1 A, I_{rr} = 0.25 A	SS24FL		9.495		ns
			SS26FL		8.260		

Typical Performance Characteristics

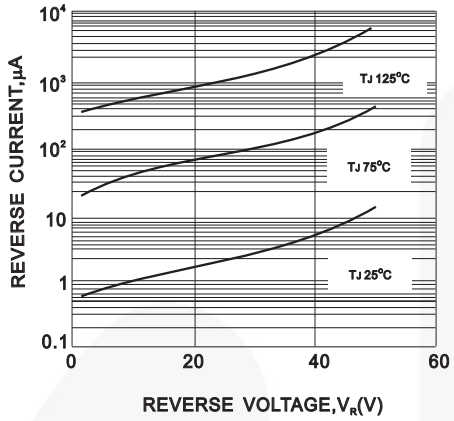


Figure 2. Typical Reverse Characteristic

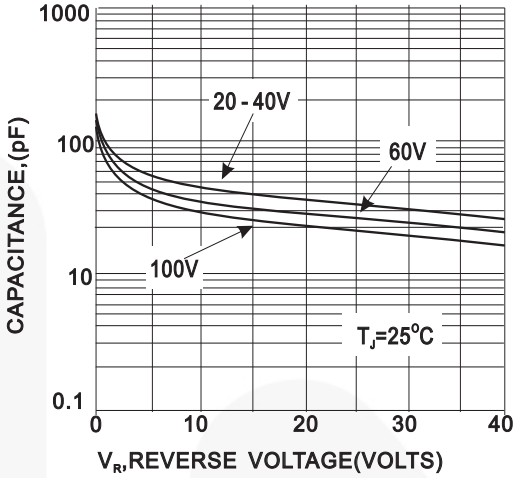


Figure 2. Typical Junction Characteristic

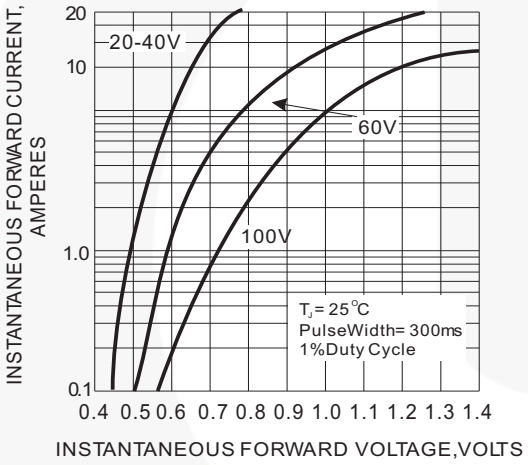
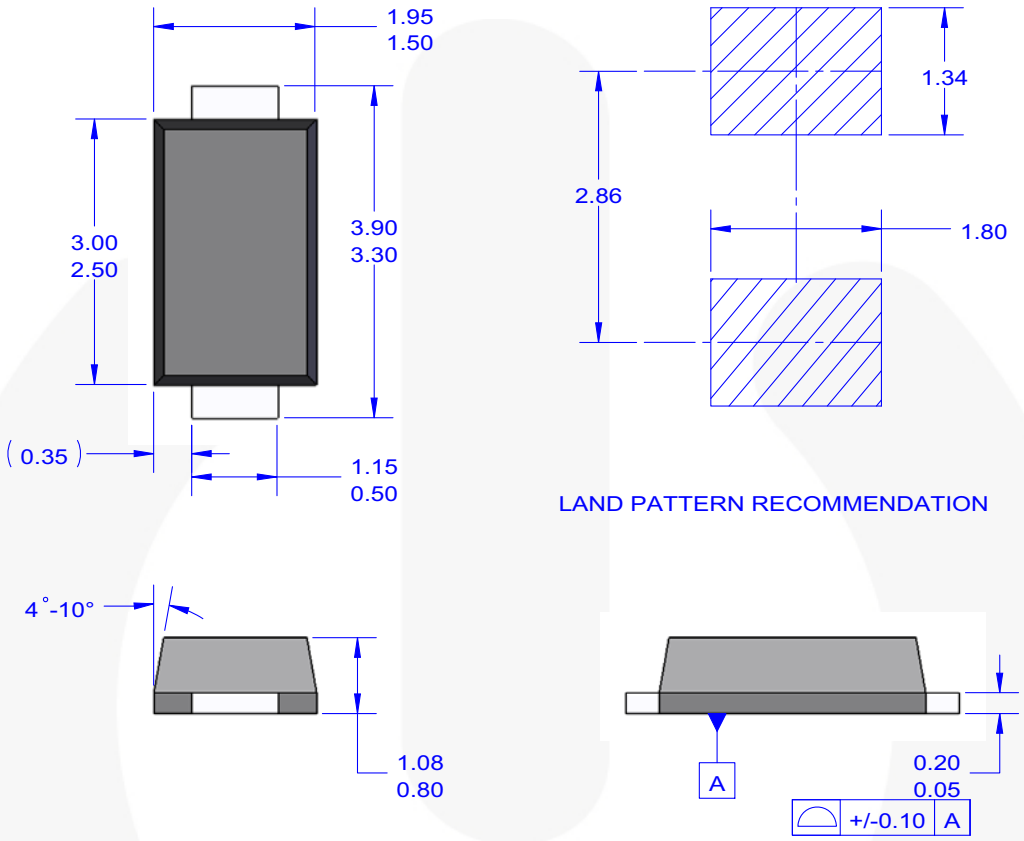


Figure 3. Typical Instantaneous Forward Characteristics

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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Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
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Rev. I76

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