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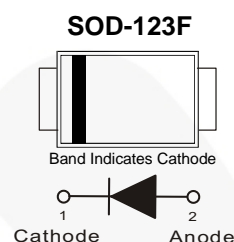
August 2015

## 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		$^\circ\text{C}$

## 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 <sup>(1)</sup>	60	$^\circ\text{C/W}$

### 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	$\mu\text{A}$
			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

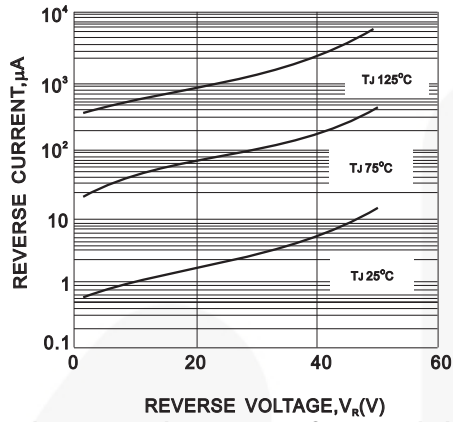


Figure 2. Typical Reverse Characteristic

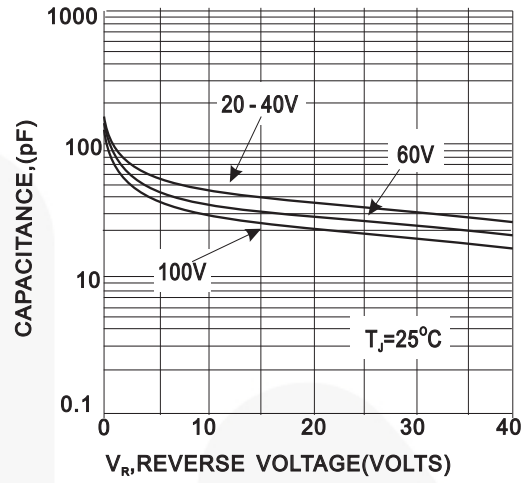


Figure 2. Typical Junction Characteristic

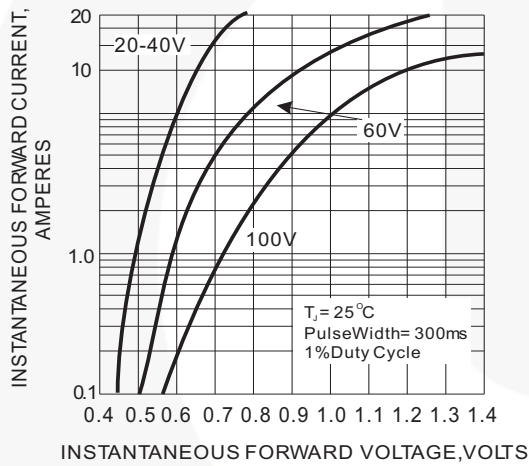
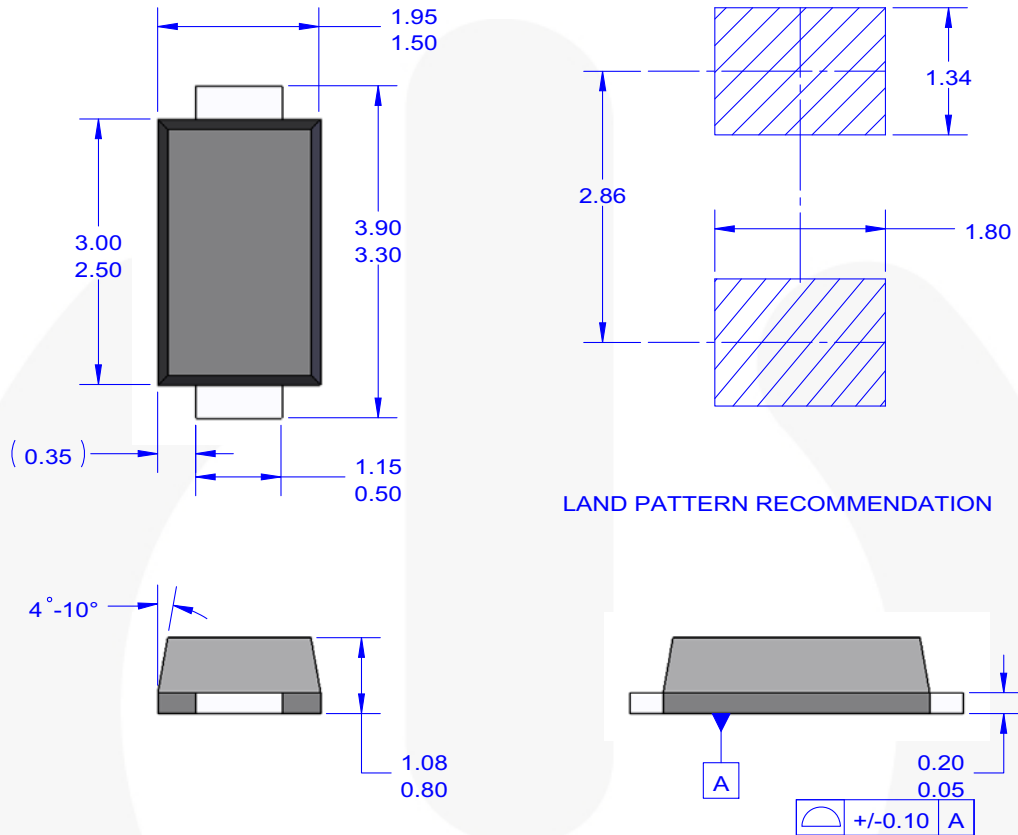


Figure 3. Typical Instantaneous Forward Characteristics

## 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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**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.