SS24FL, SS26FL

Surface Mount Schottky Barrier Rectifier

Features

- Ultra Thin Profile Maximum Height of 1.08 mm
- UL Flammability 94V-0 Classification
- MSL 1
- Green Mold Compound
- These Devices are Pb–Free, Halogen Free Free and are RoHS Compliant

Specifications

		Value		
Symbol	Parameter	SS24FL	SS26FL	Unit
V _{RRM}	Peak Reverse Voltage	40	60	V
V _R	Reverse Voltage	40	60	V
I _{F(AV)}	Average Rectified Current at $T_A = 75^{\circ}C$	2.0		A
I _{FSM}	Non-Repetitive Peak Forward Surge Current at t = 8.3 ms	50		А
ΤJ	Operating Junction Temperature Range	–55 to +125		°C
T _{STG}	Storage Temperature Range	-55 to +125		°C

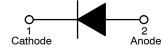
ABSOLUTE MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

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-123F CASE 425AD

MARKING DIAGRAMS



Band Indicates Cathode

- = Binary Calendar Year Coding Scheme
- = Assembly Plant Code

&Υ

&Z

GP

&G

&Υ

&G

- = Specific Device Code
- = Single Digit Weekly Data Code



Band Indicates Cathode

- = Binary Calendar Year Coding Scheme
- &Z = Assembly Plant Code GQ
 - = Specific Device Code
 - = Single Digit Weekly Data Code

ORDERING INFORMATION

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

SS24FL, SS26FL

THERMAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Characteristic	Value	Unit
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient (Note 1)	140	°C/W

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

ELECTRICAL CHARACTERISTICS (T_A = 25° C unless otherwise noted)

Symbol	Parameter	Conditions		Min	Тур	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	μΑ
			SS26FL	-	-	40	
T _{rr}	Reverse Recovery Time	I _F = 0.5 A, I _R = 1 A,	SS24FL	-	9.495	-	ns
	I _{rr} = 0.25 A	I _{rr} = 0.25 A	SS26FL	-	8.260	-	1

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 [†]
SS24FL	GP	SOD-123F (Pb-Free/Halogen Free)	3000 / Tape & Reel
SS26FL	GQ	SOD-123F (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.

SS24FL, SS26FL

TYPICAL PERFORMANCE CHARACTERISTICS

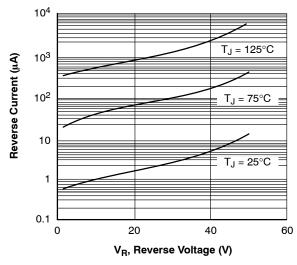
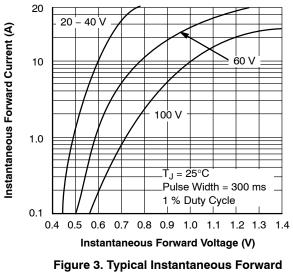


Figure 1. Typical Reverse Characteristics



Characteristics

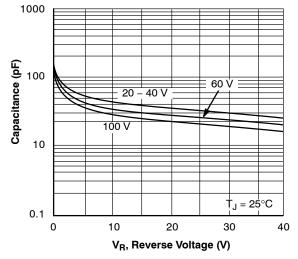
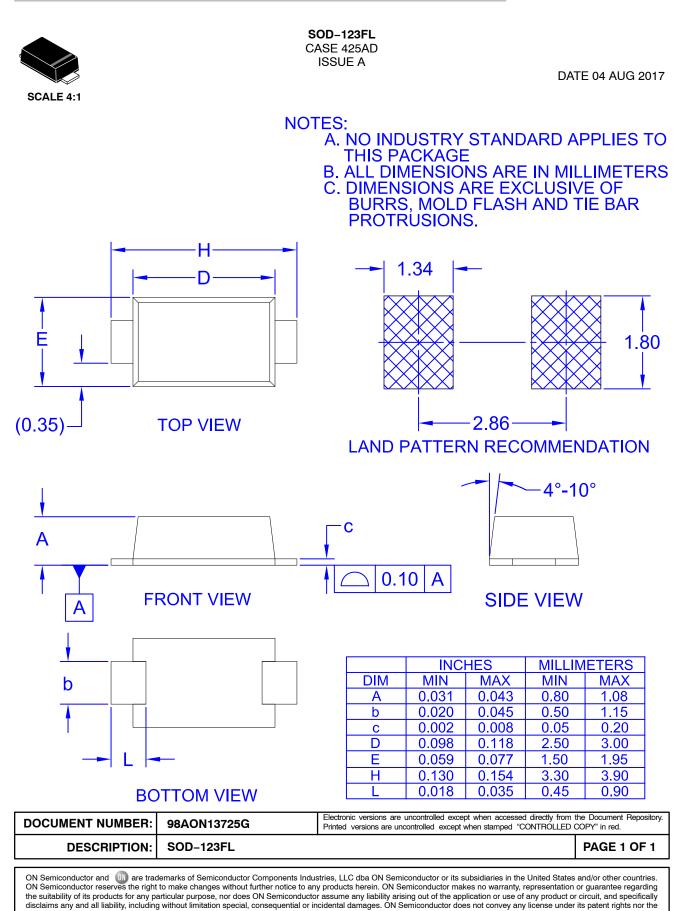


Figure 2. Typical Junction Characteristics

MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS





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