

# Surface Mount Schottky Barrier Rectifier

## SS24FL, SS26FL

### Features

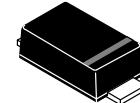
- Ultra Thin Profile – Maximum Height of 1.08 mm
- UL Flammability 94V-0 Classification
- MSL 1
- Green Mold Compound
- These Devices are Pb-Free, Halogen Free Free and are RoHS Compliant

### Specifications

#### ABSOLUTE MAXIMUM RATINGS ( $T_A = 25^\circ\text{C}$ 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		°C
$T_{STG}$	Storage Temperature Range	−55 to +125		°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.



SOD-123F  
CASE 425AD

### MARKING DIAGRAMS



Band Indicates Cathode

&Y = Binary Calendar Year Coding Scheme  
&Z = Assembly Plant Code  
GP = Specific Device Code  
&G = Single Digit Weekly Data Code



Band Indicates Cathode

&Y = Binary Calendar Year Coding Scheme  
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### ORDERING INFORMATION

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

# SS24FL, SS26FL

## THERMAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ 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 ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
$BV_R$	Reverse Breakdown Voltage	$I_R = 500 \mu\text{A}$	SS24FL	40	—	—
			SS26FL	60	—	—
$V_F$	Forward Voltage	$I_F = 2.0 \text{ A}$	SS24FL	—	—	0.55
			SS26FL	—	—	0.70
$I_R$	Reverse Leakage Current	$V_R = V_{RRM}$	SS24FL	—	—	100
			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	—
			SS26FL	—	8.260	—

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 <sup>†</sup>
SS24FL	GP	SOD-123F (Pb-Free/Halogen Free)	3000 / Tape & Reel
SS26FL	GQ	SOD-123F (Pb-Free/Halogen Free)	3000 / Tape & Reel

<sup>†</sup>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

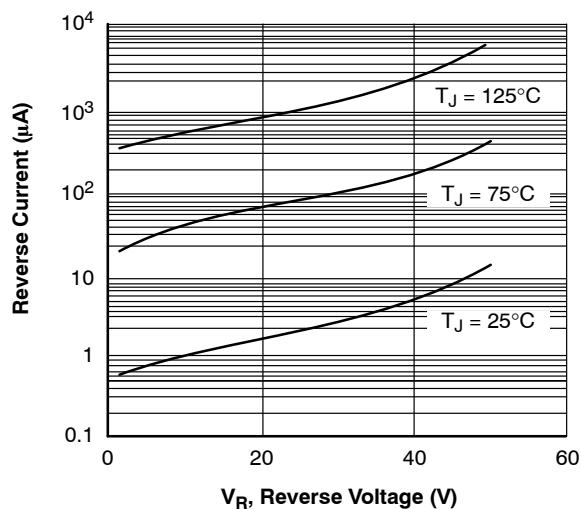


Figure 1. Typical Reverse Characteristics

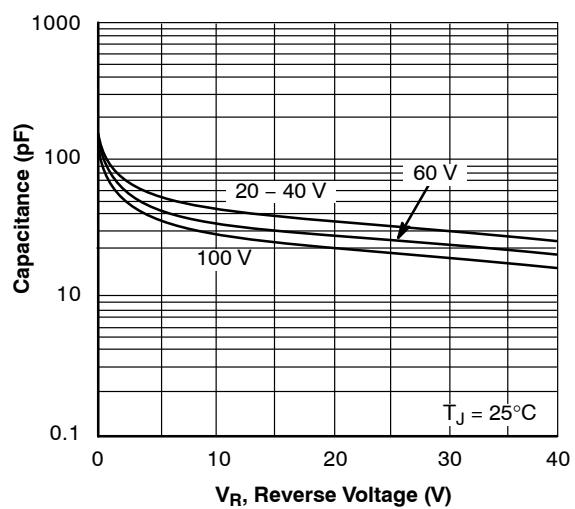


Figure 2. Typical Junction Characteristics

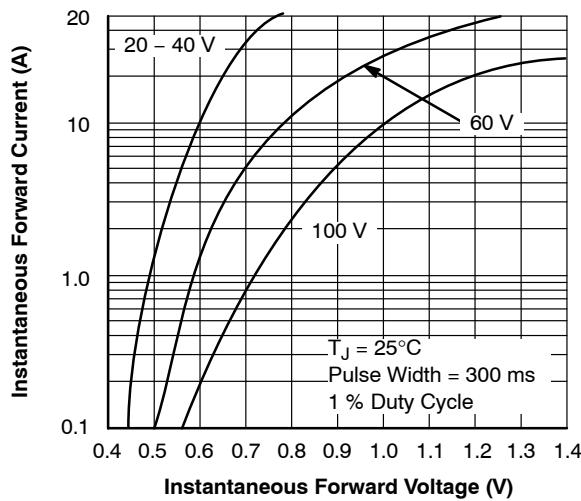
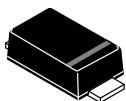


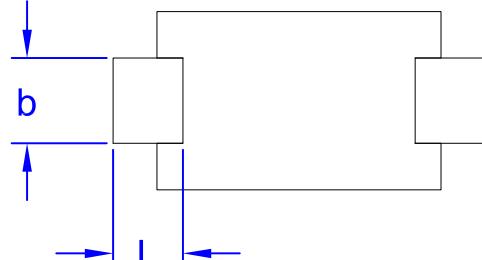
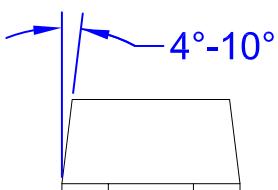
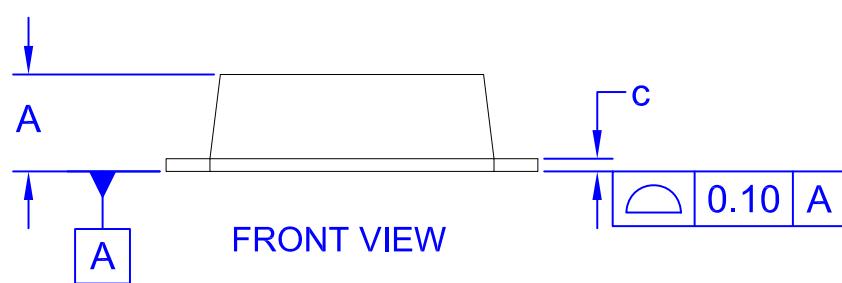
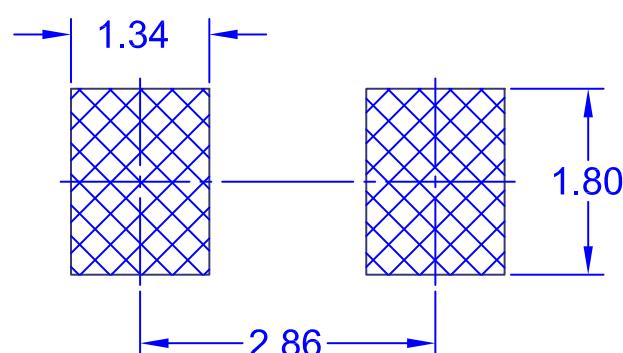
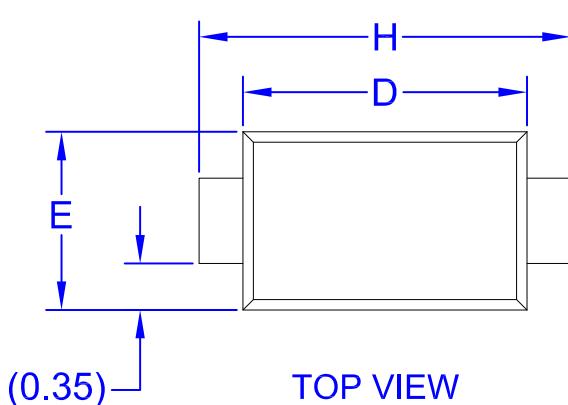
Figure 3. Typical Instantaneous Forward Characteristics



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ISSUE A

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DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.043	0.80	1.08
b	0.020	0.045	0.50	1.15
c	0.002	0.008	0.05	0.20
D	0.098	0.118	2.50	3.00
E	0.059	0.077	1.50	1.95
H	0.130	0.154	3.30	3.90
L	0.018	0.035	0.45	0.90

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