

OM SENI

SS22FL, SS220FL

Surface Mount Schottky Barrier Rectifier

Features

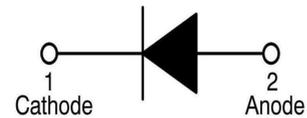
- Ultra Thin Profile – Maximum Height of 1.08 mm
- UL Flammability 94V-0 Classification
- MSL 1
- Green Mold Compound
- These Devices are Pb-Free, Halogen Free and are RoHS Compliant

Specifications

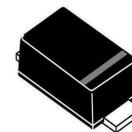
ABSOLUTE MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

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		$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +125		$^\circ\text{C}$

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.

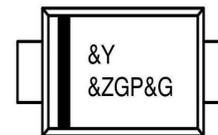


Schottky Barrier Rectifier



SOD-123FL

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

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ORDERING INFORMATION

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

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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	$^\circ\text{C/W}$

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	-	-	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	-	

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-123FL (Pb-Free/Halogen Free)	3000 / Tape & Reel
SS26FL	GQ	SOD-123FL (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.

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TYPICAL PERFORMANCE CHARACTERISTICS

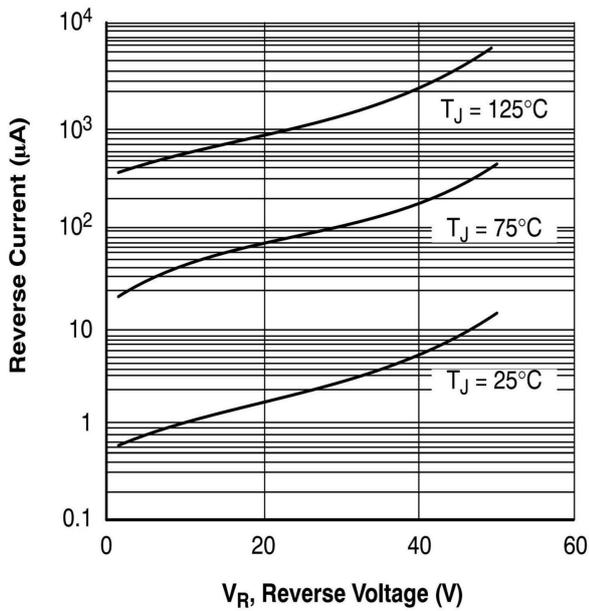


Figure 1. Typical Reverse Characteristics

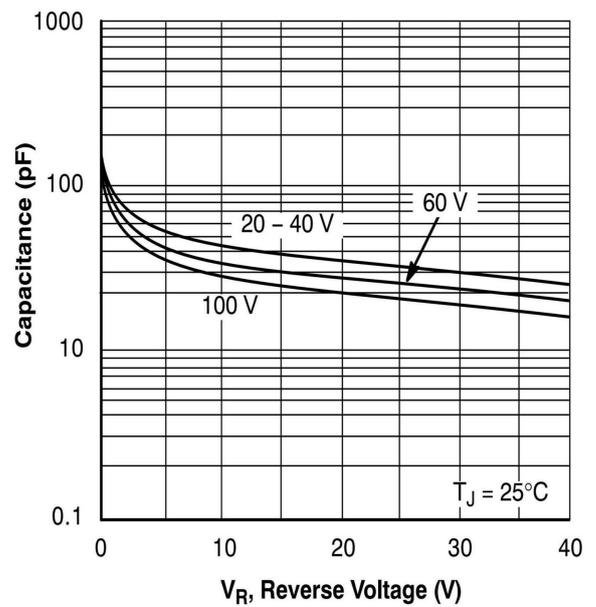


Figure 2. Typical Junction Characteristics

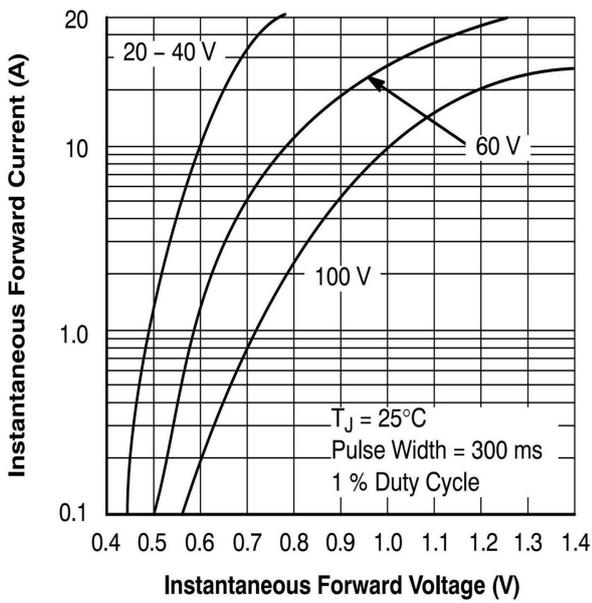


Figure 3. Typical Instantaneous Forward Characteristics

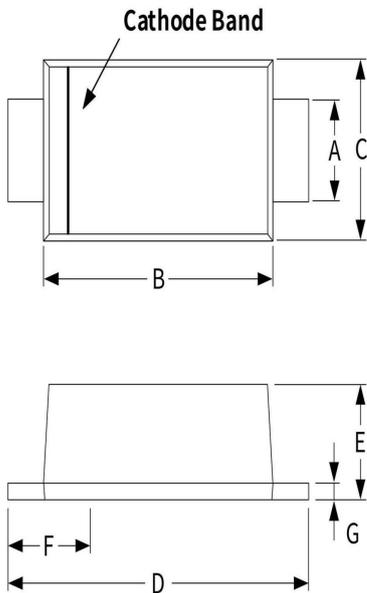
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Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SOD-123FL	R1	0.0169	3000	45000	180000	7"

Package Outline Dimensions (SOD -123FL)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	0.90	1.10	0.035	0.430
B	2.55	2.85	0.100	0.111
C	1.60	1.90	0.063	0.074
D	3.60	3.90	0.031	0.043
E	1.00	1.20	0.031	0.035
F	0.40	0.90	0.047	0.055
G	0.10	0.25	0.003	0.007



Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	1.00	-	0.040	-
K	-	1.90	-	0.074
M	1.50	-	0.059	-

