

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

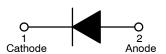
Specifications

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

		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		Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current at t = 8.3 ms	50		Α
TJ	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.

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Schottky Barrier Rectifier



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

&Z = Assembly Plant Code GQ = Specific Device Code

&G = 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	Condition	ons	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, I _{rr} = 0.25 A	SS24FL	-	9.495	-	ns
		I _{rr} = 0.25 A	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-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.

TYPICAL PERFORMANCE CHARACTERISTICS

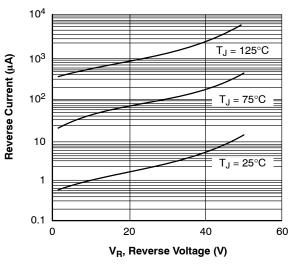


Figure 1. Typical Reverse Characteristics

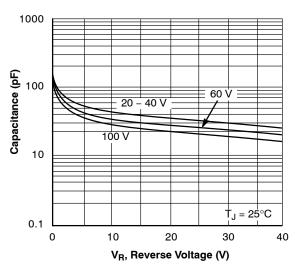


Figure 2. Typical Junction Characteristics

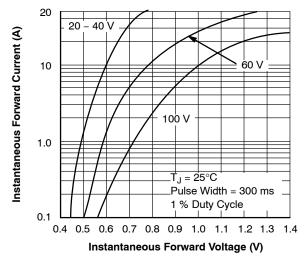


Figure 3. Typical Instantaneous Forward Characteristics

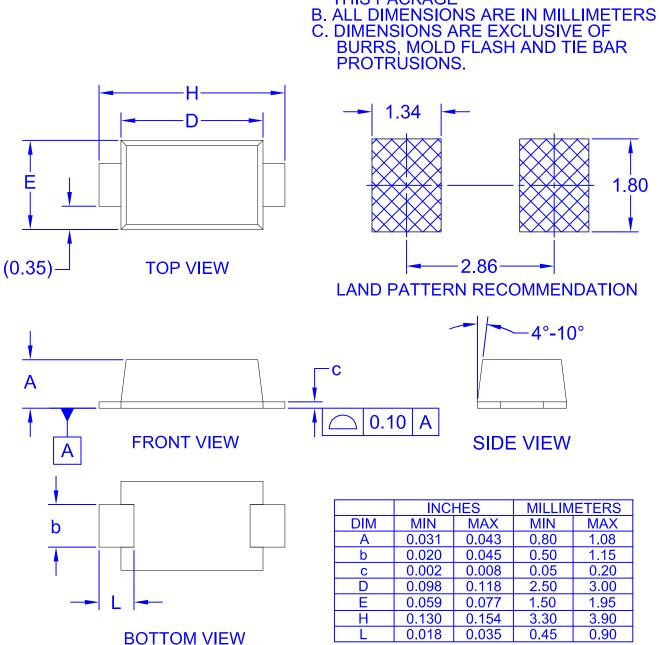


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DATE 04 AUG 2017

NOTES:

- A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE



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