SS13FL, SS14FL

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

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

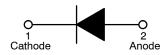
		Value		
Symbol	Parameter	SS13FL	SS14FL	Unit
V _{RRM}	Peak Reverse Voltage	30	40	V
V _R	Reverse Voltage	30	40	V
I _{F(AV)}	Average Rectified Current at $T_A = 75^{\circ}C$	1.0		Α
I _{FSM}	Non-Repetitive Peak Forward Surge Current at t = 8.3 ms	40		Α
TJ	Operating Junction Temperature Range	-55 to +125		°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

G3 = Specific Device Code

&G = Single Digit Weekly Data Code



Band Indicates Cathode

&Y = Binary Calendar Year Coding Scheme

&Z = Assembly Plant Code G4 = Specific Device Code

&G = Single Digit Weekly Data Code

ORDERING INFORMATION

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

SS13FL, SS14FL

THERMAL CHARACTERISTICS (T_A = 25°C unless otherwise noted) (Note 1)

Symbol	Characteristic	Value	Unit
$\Psi_{\sf JL}$	Typical Thermal Characteristics, Junction-to-Lead (Note 2)	25	°C/W
$R_{\theta JA}$	Typical Thermal Resistance, Junction-to-Ambient	140	°C/W

^{1.} Per JESD51-3 recommended thermal test board. Device mounted on FR-4 PCB, board size = 76.2 mm x 114.3 mm.

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	SS13FL	30	-	-	V
			SS14FL	40	-	-	
V _F	Forward Voltage	I _F = 1.0 A		-	-	0.55	V
I _R	Reverse Leakage Current	$V_R = V_{RRM}$		-	-	30	μΑ
T _{rr}	Reverse Recovery Time	I _F = 0.5 A, I _R = 1 A, I _{rr} = 0.25 A	SS13FL	-	5.875	-	ns
			SS14FL	-	5.695	-	
СЈ	Junction Capacitance	V _R = 0		-	60	-	pF

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 [†]
SS13FL	G3	SOD-123F (Pb-Free/Halogen Free)	3000 / Tape & Reel
SS14FL	G4	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.

^{2.} Thermocouple soldered at cathode lead.

SS13FL, SS14FL

TYPICAL PERFORMANCE CHARACTERISTICS

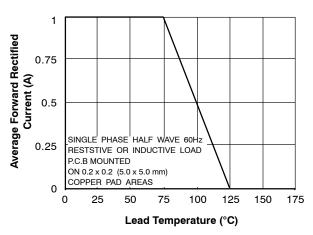


Figure 1. Forward Current Derating Curve

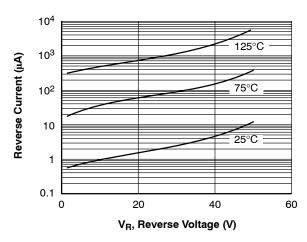


Figure 2. Typical Reverse Characteristics

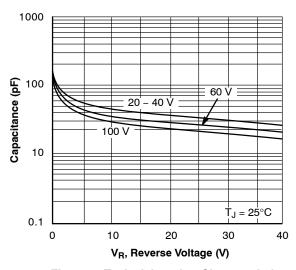


Figure 3. Typical Junction Characteristics

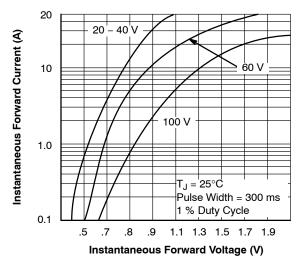


Figure 4. Typical Instantaneous Forward Characteristics

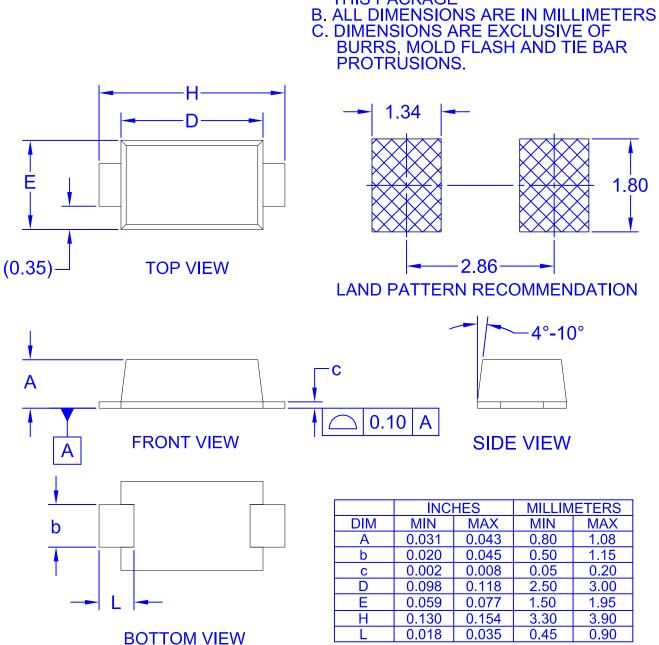


SOD-123FL CASE 425AD **ISSUE A**

DATE 04 AUG 2017

NOTES:

- A. NO INDUSTRY STANDARD APPLIES TO THIS PACKAGE



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