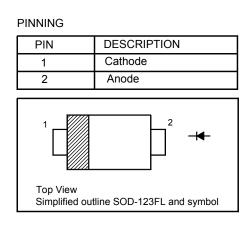
# Surface Mount Schottky Barrier Rectifier

#### Features

- AEC-Q101 Qualified
- Small power mold type
- Low reverse current
- High reliability
- Halogen and Antimony Free(HAF), RoHS compliant



#### Application

General rectification

Absolute maximum ratings ( $T_a = 25$ C)							
Parameter	Symbol	Value	Unit				
Repetitive Peak Reverse Voltage	V <sub>RM</sub>	90	V				
Reverse Voltage	V <sub>R</sub>	90	V				
Average Rectified Forward Current	I <sub>F(AV)</sub>	1	А				
Peak Forward Surge Current (8.3 ms)	I <sub>FSM</sub>	30	А				
Junction Temperature	Tj	150	°C				
Storage Temperature Range	T <sub>stg</sub>	- 40 to + 150	°C				

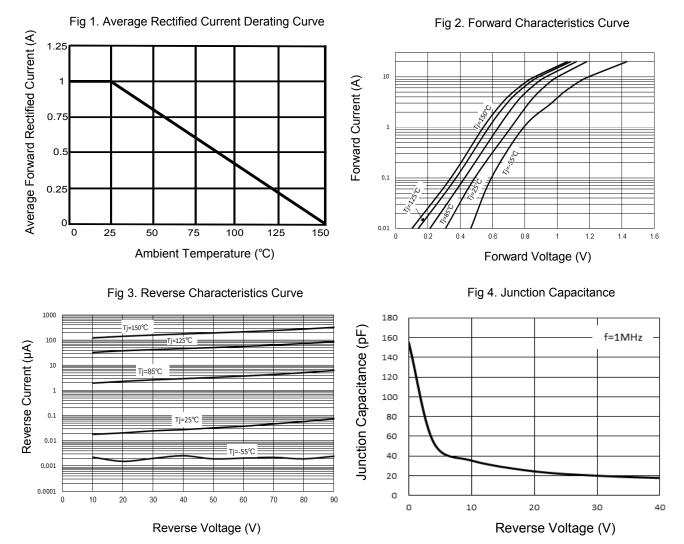
### Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

# Electrical Characteristics (T<sub>a</sub> = 25°C)

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I <sub>R</sub> = 100 μA	V <sub>(BR)R</sub>	90	-	V
Forward Voltage at I <sub>F</sub> = 1 A	$V_{F}$	-	0.75	V
Reverse Current at $V_R$ = 90 V	I <sub>R</sub>	-	100	μA



### **Electrical Characteristics Curves**

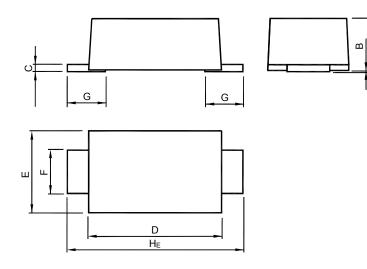


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R
Dated: 29/06/2023 Rev : 01
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# PACKAGE OUTLINE

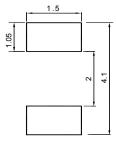
### Plastic surface mounted package; 2 leads

SOD-123FL



UNIT	А	В	С	D	Е	F	G	H <sub>E</sub>
mm	1.08	0.1	0.2	2.9	1.9	1.1	0.85	3.9
111111	0.88	0	0.1	2.7	1.7	0.8	0.45	3.5

### **Recommended Soldering Footprint**



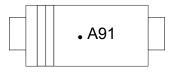
# **Packing information**

Tape Width		Pitch		Reel	Size		
Package	(mm)	mm	inch	mm	inch	Per Reel Packing Quantity	
SOD-123FL	8	4 ± 0.1	0.157 ± 0.004	178	7	3,000	

#### Marking information

- " A91 " = Part No.
- " III " = Cathode line
- "•" = HAF (Halogen and Antimony Free)

Font type: Arial



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