



## SS1060FL-AU

### SURFACE MOUNT SCHOTTKY DIODES

Voltage 60 V Current 1 A

#### **Features**

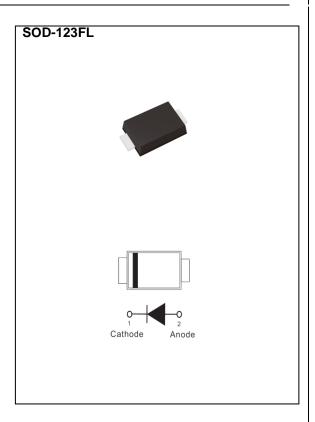
- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard
- AEC-Q101 qualified

### **Mechanical Data**

• Case: SOD-123FL Package

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0006 ounces, 0.017 grams



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## **Maximum Ratings and Thermal Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V	
Maximum Rms Voltage	V <sub>RMS</sub>	42	V	
Maximum Dc Blocking Voltage	V <sub>DC</sub>	60	V	
Maximum Average Forward Current	I <sub>F(AV)</sub>	1	Α	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I <sub>FSM</sub>	40	А	
Typical Junction Capacitance  Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$	CJ	50	pF	
Typical Thermal Resistance	R <sub>θJA</sub> <sup>(1)</sup> R <sub>θJC</sub> <sup>(2)</sup>	200 32	°C/W	
Operating Junction Temperature Range	TJ	-55~150	°C	
Storage Temperature Range	T <sub>STG</sub>	-55~150	°C	

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## **Electrical Characteristics** (T<sub>A</sub> = 25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	VF	I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 25 °C	-	0.5	-	V	
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 25 °C	-	1	0.7		
		I <sub>F</sub> = 0.5 A, T <sub>J</sub> = 125 °C	-	0.46	-		
		I <sub>F</sub> = 1 A, T <sub>J</sub> = 125 °C	-	0.56	-		
Reverse Current	I <sub>R</sub> <sup>(3)</sup>	V <sub>R</sub> = 48 V, T <sub>J</sub> = 25 °C	-	1.78	-		
		V <sub>R</sub> = 60 V, T <sub>J</sub> = 25 °C	-	1	30	uA	
		V <sub>R</sub> = 60 V, T <sub>J</sub> = 125 °C	-	1.6	-	mA	

### NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.

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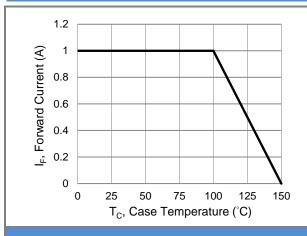


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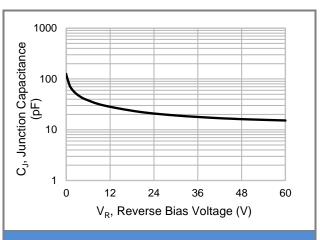


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### **TYPICAL CHARACTERISTIC CURVES**



**Fig.1 Forward Current Derating Curve** 



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**Fig.2 Typical Junction Capacitance** 

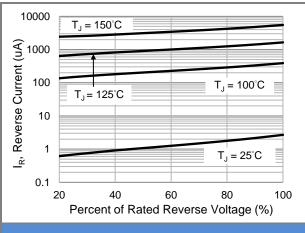


Fig.3 Typical Reverse Characteristics

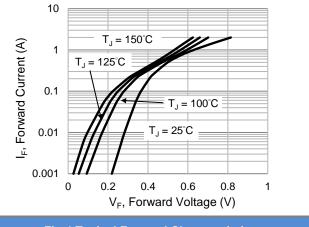


Fig.4 Typical Forward Characteristics

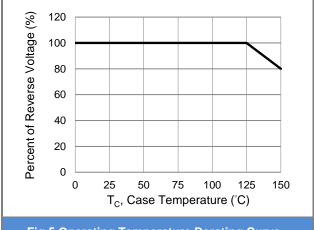


Fig.5 Operating Temperature Derating Curve

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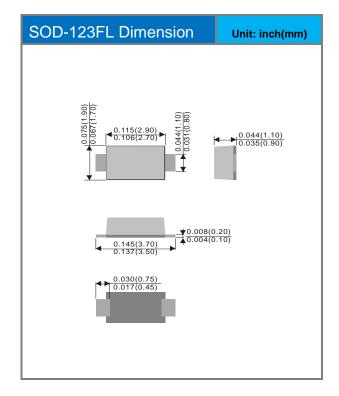
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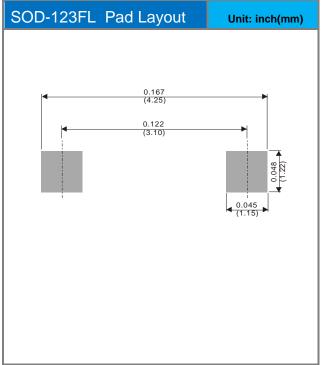
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### Part No. Packing Code Version

Part	No. Packing Code	Package Type	Packing Type	Marking	Version
SS10	60FL-AU_R1_000A1	SOD-123FL	3K / 7" Reel	G6	Halogen free

## **Packaging Information & Mounting Pad Layout**





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