

Surface Mount Ultra Low VF Schottky Barrier Rectifier

Voltage 60 V Current 1 A

Features

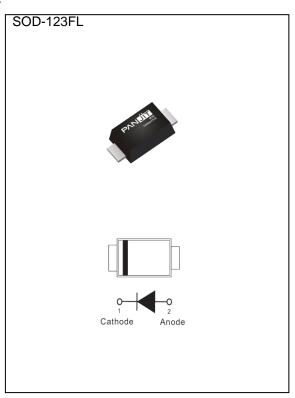
- Low forward voltage drop
- Ideal for automated placement
- Low power loss, high efficiency
- High surge current capability
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case: SOD-123FL Package

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

• Approx. Weight: 0.0173 grams



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS	
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	60	V	
Maximum RMS Voltage		V _{RMS}	42	V	
Maximum DC Blocking Voltage		V _{DC}	60	V	
Maximum Average Forward Current		I _{F(AV)}	1	А	
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load		I _{FSM}	40	А	
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$		CJ	80	pF	
Typical Thermal Resistance	(Note 1)	R _{θJA}	200	°C/W	
	(Note 2)	Rejc	32		
Operating Junction Temperature Range		TJ	-55~150	°C	
Storage Temperature Range		T _{STG}	-55~150	°C	



Electrical Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Forward Voltage	V _F	I _F = 0.5 A, T _J = 25 °C	-	0.43	-	V
		I _F = 1 A, T _J = 25 °C	-	-	0.54	
		I _F = 0.5 A, T _J = 125 °C	-	0.36	-	
		I _F = 1 A, T _J = 125 °C	-	0.45	-	
Reverse Current ^(Note 3)	I _R	V _R = 48 V, T _J = 25 °C	-	5.5	-	uA
		V _R = 60 V, T _J = 25 °C	-	-	30	
		V _R = 60 V, T _J = 125 °C	-	4.3	-	mA

NOTES:

- 1. Mounted with minimum recommended pad size, PC Board FR4
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.
- 3. Short duration pulse test used to minimize self-heating effect.

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TYPICAL CHARACTERISTIC CURVES

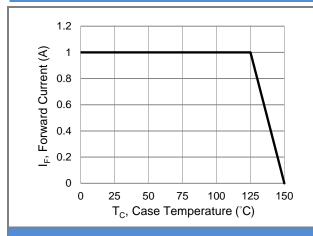


Fig.1 Forward Current Derating Curve

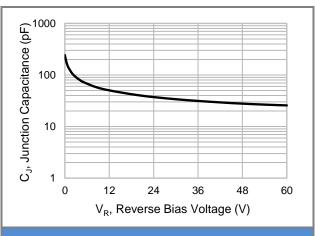


Fig.2 Typical Junction Capacitance

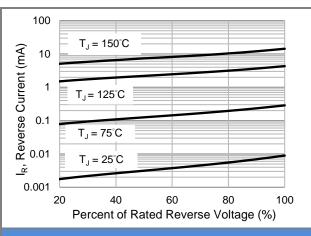


Fig.3 Typical Reverse Characteristics

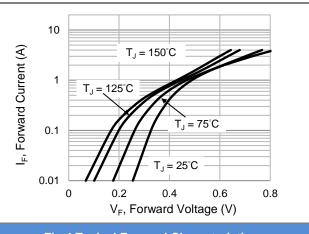


Fig.4 Typical Forward Characteristics

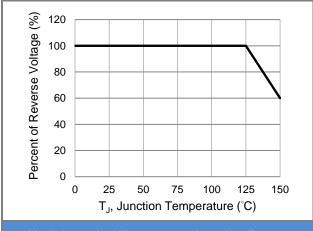


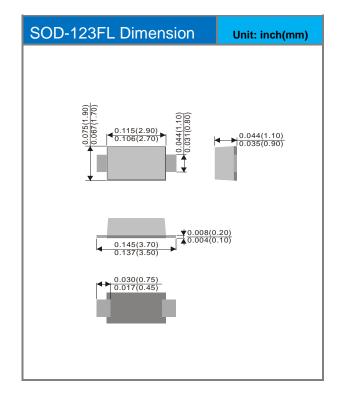
Fig.5 Operating Temperature Derating Curve

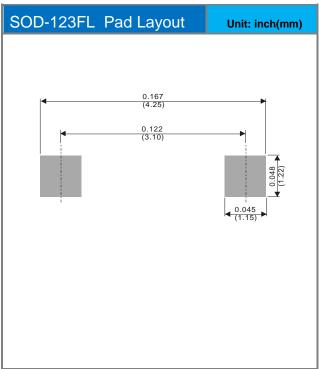


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SS1060XFL-AU	SOD-123FL	3K / 7" Reel	6X

Packaging Information & Mounting Pad Layout





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