

SURFACE MOUNT SCHOTTKY DIODES

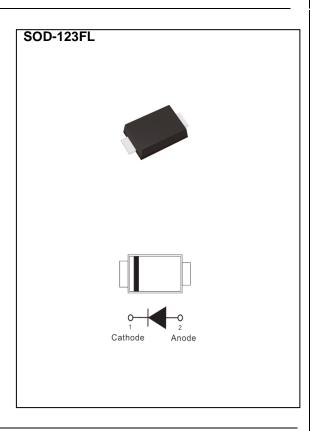
Voltage 100 V Current 1 A

Features

- Low forward voltage drop
- Deal for automated placement
- Low power loss, high efficiency
- High surge current capability
- 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



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

PARAMETER	SYMBOL	LIMIT	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	100	V
Maximum Rms Voltage	V _{RMS}	80	V
Maximum Dc Blocking Voltage	V _{DC}	100	V
Maximum Average Forward Current	I _{F(AV)}	1	Α
Peak Forward Surge Current : 8.3 ms Single Half Sine- Wave Superimposed On Rated Load	I _{FSM}	30	А
Typical Junction Capacitance Measured at 1 MHZ And Applied $V_R = 4 \text{ V}$	CJ	40	pF
Typical Thermal Resistance	R _{θJA} ⁽¹⁾ R _{θJC} ⁽²⁾	200 32	°C/W
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	VF	I _F = 0.5 A, T _J = 25 °C	ı	0.69	-	· V
		I _F = 1 A, T _J = 25 °C	ı	-	0.8	
		I _F = 0.5 A, T _J = 125 °C	-	0.56	-	
		I _F = 1 A, T _J = 125 °C	-	0.62	-	
Reverse Current I _R ⁽³⁾	V _R = 80 V, T _J = 25 °C	ı	0.04	-	^	
	I _R ⁽³⁾	V _R = 100 V, T _J = 25 °C	1	-	30	uA
		V _R = 100 V, T _J = 125 °C	-	0.1	-	mA

NOTES:

- 1. Mounted on a FR4 PCB, single-sided copper, mini pad.
- 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.

September 5,2017 SS10100FL-AU-REV.00S Page 2



TYPICAL CHARACTERISTIC CURVES

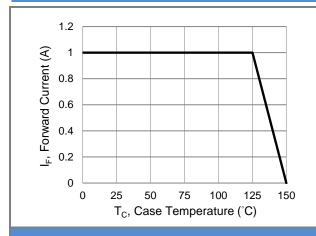


Fig.1 Forward Current Derating Curve

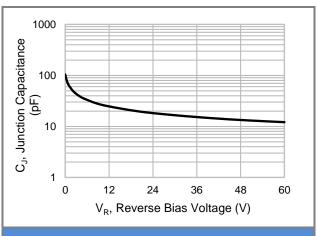


Fig.2 Typical Junction Capacitance

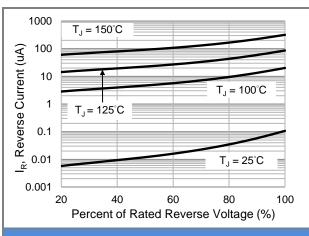


Fig.3 Typical Reverse Characteristics

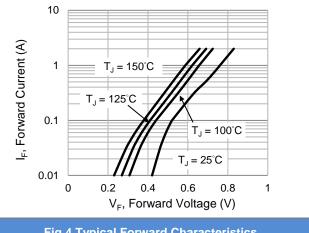


Fig.4 Typical Forward Characteristics

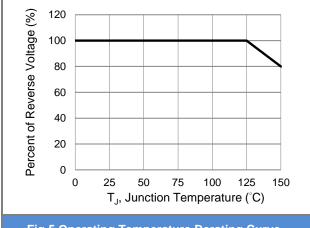


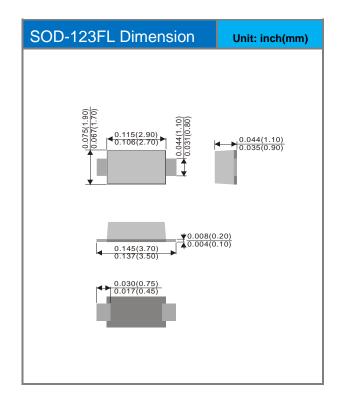
Fig.5 Operating Temperature Derating Curve

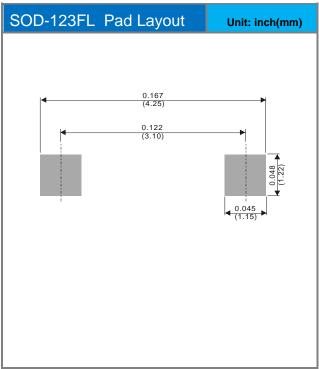


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SS10100FL-AU	SOD-123FL	3K / 7" Reel	G10

Packaging Information & Mounting Pad Layout





September 5,2017 SS10100FL-AU-REV.00S Page 4



Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are
 responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no
 representation or warranty that such applications will be suitable for the specified use without further testing or
 modification.
- The products shown herein are not designed and authorized for equipments relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

September 5,2017 SS10100FL-AU-REV.00S Page 5