LLS110WA

Surface Mount Schottky Barrier Rectifier
Reverse Voltage - 100V Forward Current - 1A

Top View
Marking Code: S110

Simplified outline SOD-123FL and symbol

FEATURES

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight:15mg 0.00048oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter		Symbol	Spec. Limit			Unit
			Min.	Typ.	Max.	
Max. Repetitive Peak Reverse Voltage @0.5mA		V_{RRM}	100			V
Max. Average Forward Rectified Current		$I_{F(AV)}$			1	A
Forward Voltage Drop	I_F=0.5A I_F=1.0A	V_F		0.63 0.73	0.67 0.77	V
Max. Reverse Current at V_{RRM} @100V		I_R		0.3	2.5	μA
Operating Temperature Range		T_J	-55		+150	℃
Storage Temperature Range		T_{STG}	-55		+150	℃

*Datasheet information is subjected to change without notice.

Fig.1 Forward Current Derating Curve

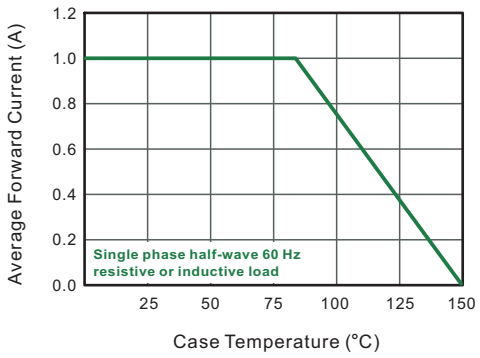


Fig.2 Typical Reverse Characteristics

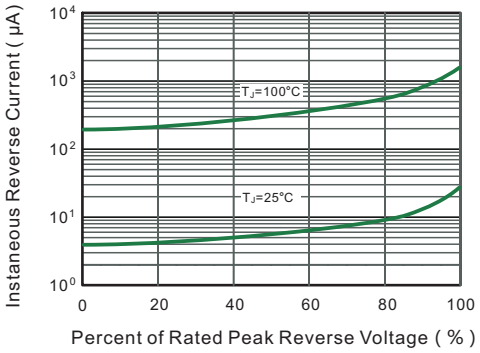


Fig.3 Typical Forward Characteristic

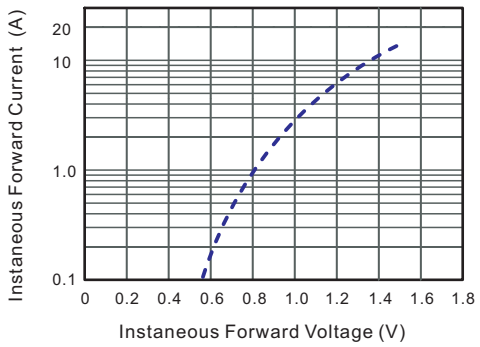


Fig.4 Typical Junction Capacitance

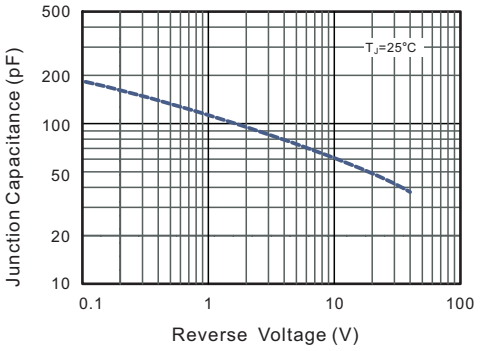


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

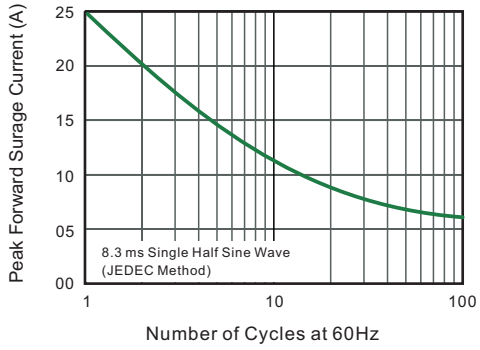
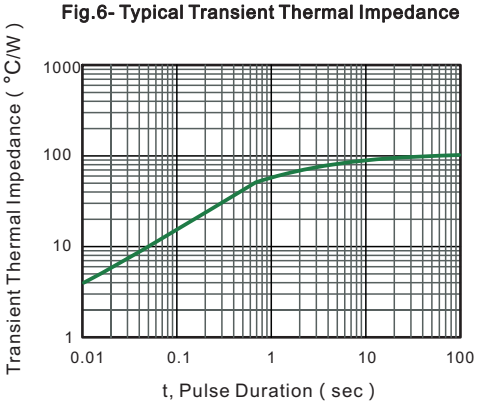


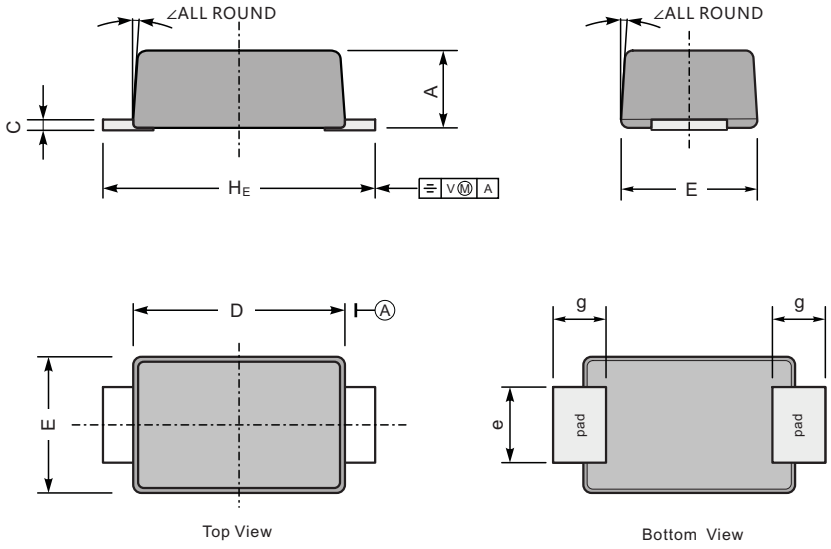
Fig.6- Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.1	0.20	2.9	1.9	1.1	0.9	3.8	7°
	min	0.9	0.12	2.6	1.7	0.8	0.7	3.5	
mil	max	43	7.9	114	75	43	35	150	
	min	35	4.7	102	67	31	28	138	

The recommended mounting pad size