



Surface Mount Superfast Recovery Rectifier

Reverse Voltage – 50 to 600 V

Forward Current – 2 A

FEATURES

- Easy pick and place
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Superfast recovery times for high efficiency

MECHANICAL DATA

- Case: SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 15mg / 0.00053oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Simplified outline SOD-123FL and symbol

Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	ES2AW	ES2BW	ES2CW	ES2DW	ES2EW	ES2GW	ES2JW	Units		
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V		
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V		
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V		
Maximum Average Forward Rectified Current at T _c = 125 °C	I _{F(AV)}	2						A			
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50						A			
Maximum Forward Voltage at 2 A	V _F	1			1.25		1.68	V			
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a = 125 °C	I _R	5 100						μA			
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	30						pF			
Maximum Reverse Recovery Time ⁽¹⁾	t _{rr}	35						ns			
Typical Thermal Resistance ⁽²⁾	R _{θJA} R _{θJC}	75 22						°C/W			
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150						°C			

(1) Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



Fig.1 Reverse Recovery Time Characteristic And Test Circuit Diagram

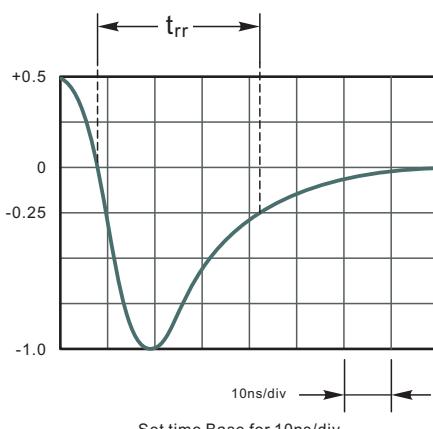
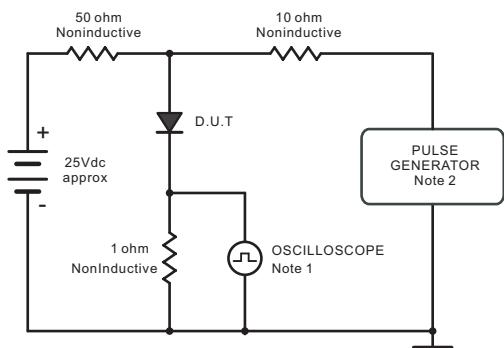


Fig.2 Maximum Average Forward Current Rating

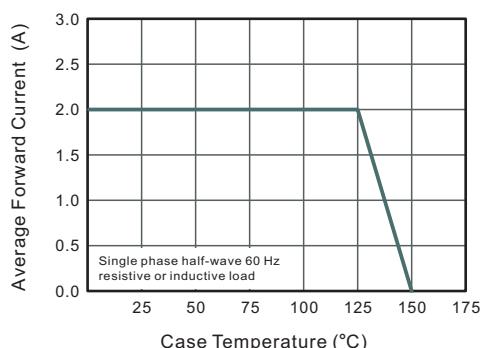


Fig.3 Typical Reverse Characteristics

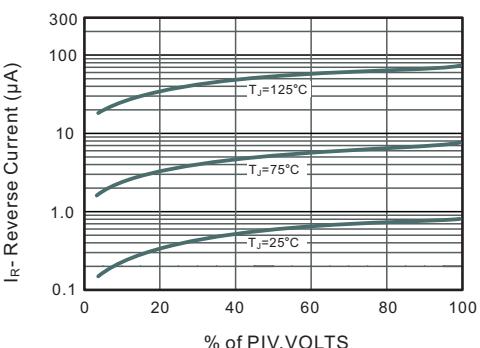


Fig.4 Typical Forward Characteristics

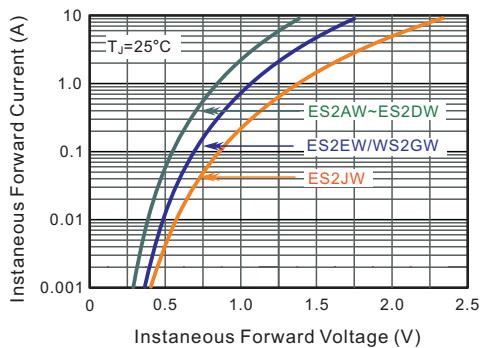


Fig.5 Typical Junction Capacitance

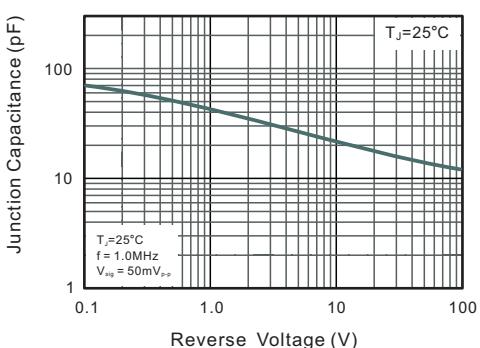
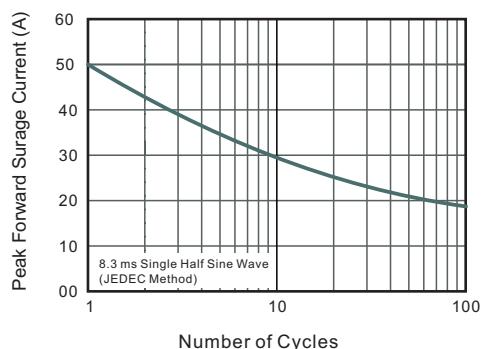


Fig.6 Maximum Non-Repetitive Peak Forward Surge Current

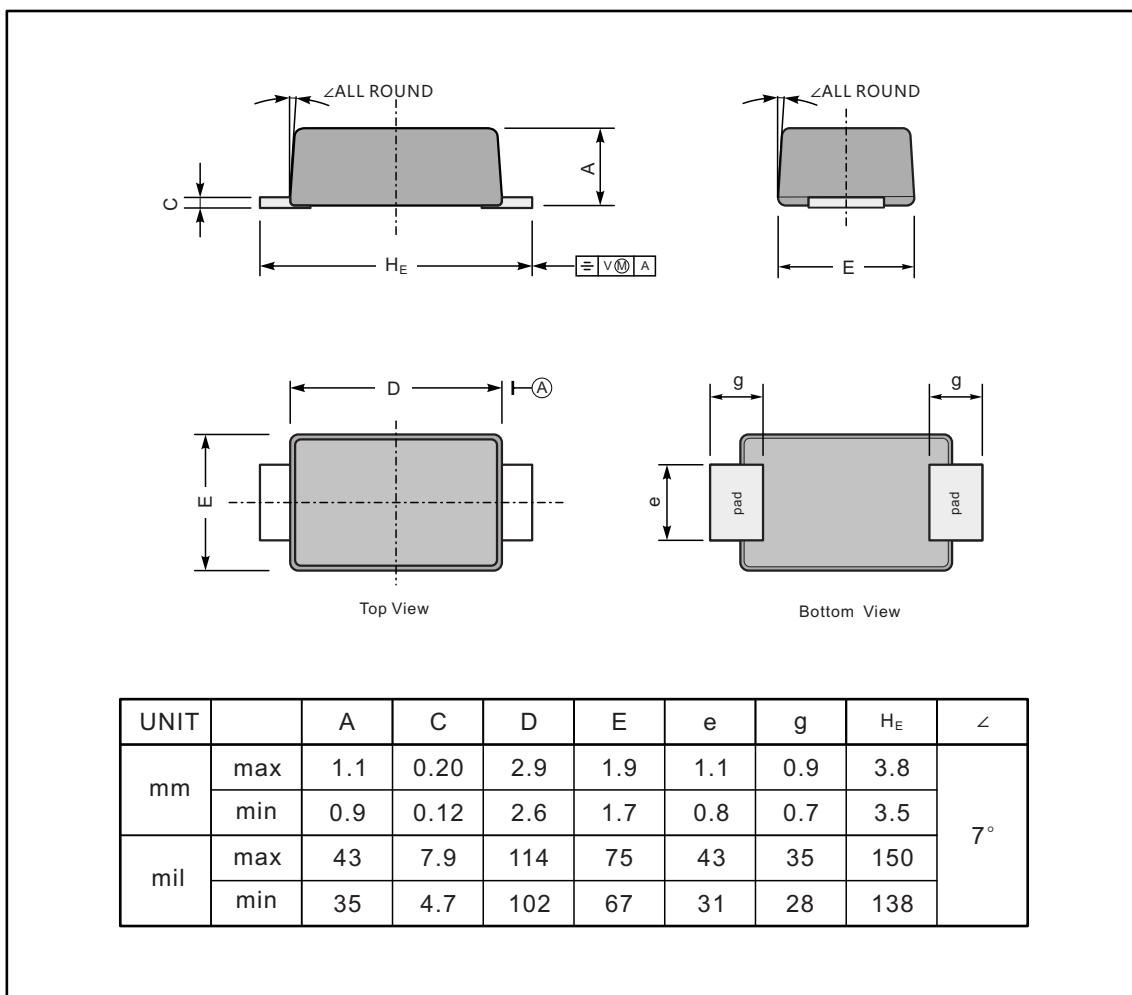




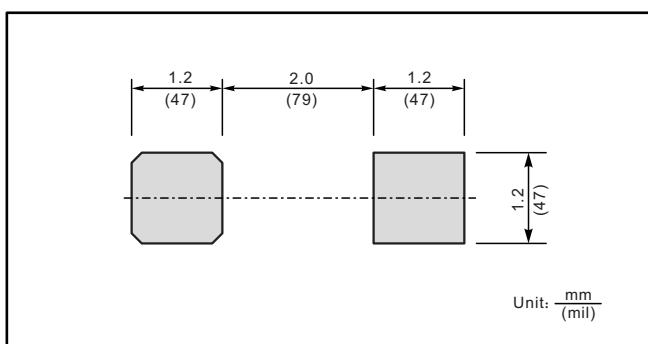
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



Marking

Type number	Marking code
ES2AW	E2L
ES2BW	
ES2CW	
ES2DW	
ES2EW	E2M
ES2GW	
ES2JW	E2H

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