Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

FEATURES

- For surface mounted applications
- · Low profile package
- · Glass Passivated Chip Junction
- · Easy to pick and place
- · Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

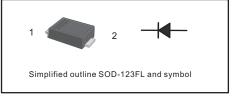
· Case: SOD-123FL

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

· Approx. Weight: 15mg 0.00053oz

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



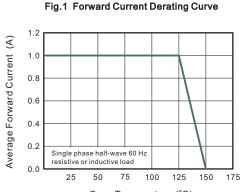
Absolute Maximum Ratings and Characteristics

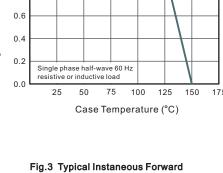
Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

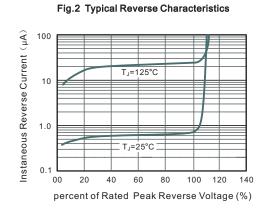
Parameter	Symbols	FR101W	FR102W	FR103W	FR104W	FR105W	FR106W	FR107W	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_c = 125 °C	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30						А	
Maximum Forward Voltage at 1 A	V _F	1.3						V	
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100						μА	
Typical Junction Capacitance at V _R =4V, f=1MHz	Cj	15						pF	
Maximum Reverse Recovery Time (1)	t _{rr}	150 250			5	500			
Typical Thermal Resistance (2)	$R_{\theta JA}$	85						°C/W	
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150						°C	

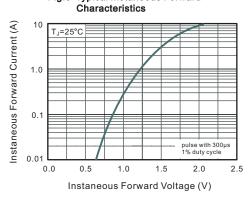
^(1) Measured with $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle rr}$ = 0.25 A.

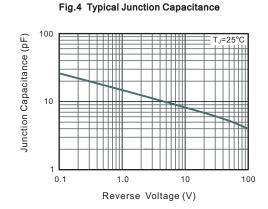
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

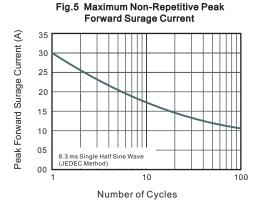








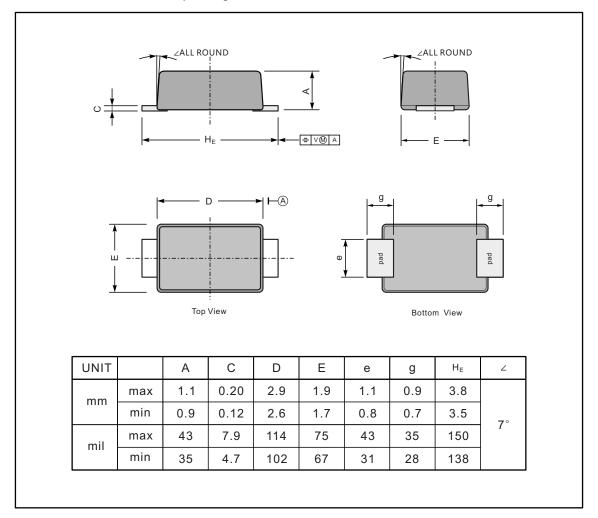




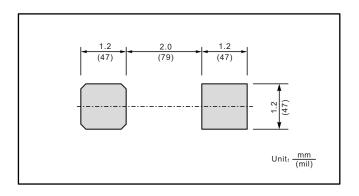
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123FL



The recommended mounting pad size



Marking

Type number	Marking code				
FR101W					
FR102W	F2				
FR103W	F2				
FR104W					
FR105W	F5				
FR106W	F7				
FR107W	Г/				

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