SURFACE MOUNT FAST RECOVERY RECTIFIERS

Forward Current-1A

Reverse Voltage-50V to 1000V

FEATURES

- ♦ For surface mount applications
- ♦ Glass passivated chip junction
- **♦** Low profile package
- ◆ Fast reverse recovery time
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

MECHANICAL DATA

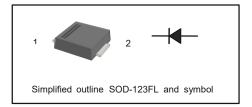
◆ Case: SOD-123FL molded plastic body

◆ Terminals: Solderable per MIL-STD-750, Method2026

♦ Weight: Approximated 0.015 grams

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	FR101FL	FR102FL	FR103FL	FR104FL	FR105FL	FR106FL	FR107FL	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	٧
Maximum Average Forward Rectified Current at T _C =125℃	I _{F(AV)}	1					Α		
Peak Forward Surge Current (Note1)	I _{FSM}	30					Α		
Maximum Forward Voltage at 1.0 A	V _F	1.3					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =125°C	I _R	5 100					uA		
Typical Junction Capacitance at V _R =4V, f=1MHz	Сл	15					pF		
Maximum Reverse Recovery Time (Note2)	Trr	150 250 50			00	nS			
Typical Thermal Resistance (Note3)	R _{0JA}	85					°C/W		
Operating and Storage Temperature Range	T_{J},T_{STG}	-55 to +150					°C		

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

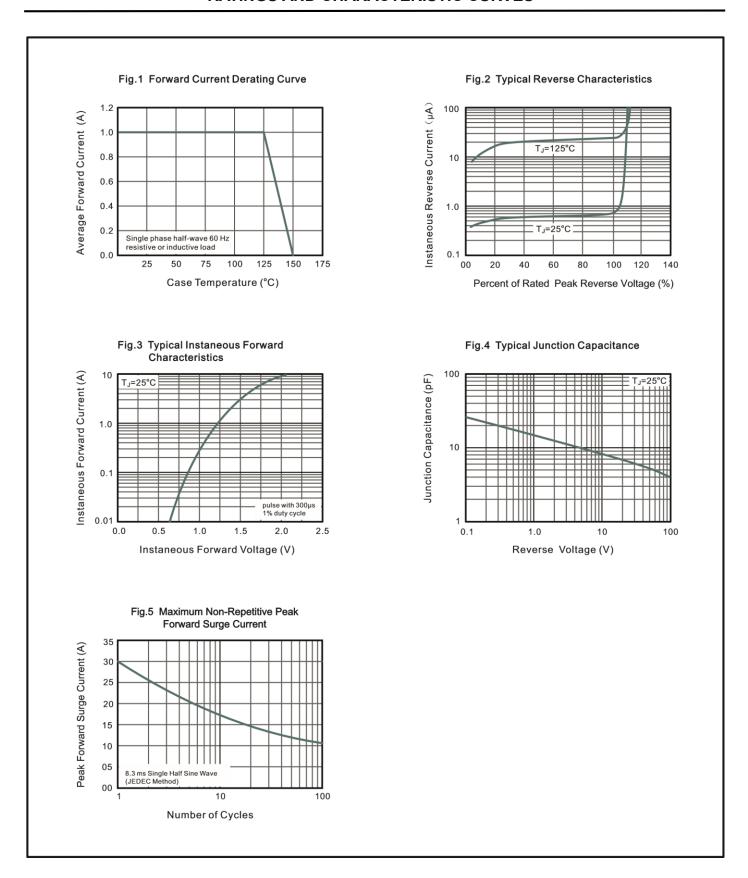
2. Measured with I_F =0.5A, I_R =1A, I_{rr} =0.25A.

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

Dated: 05/2016

Rev:1.0

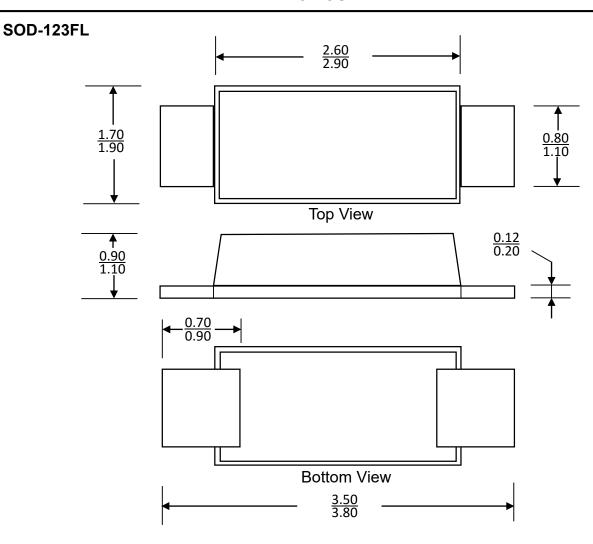
RATINGS AND CHARACTERISTIC CURVES



Dated: 05/2016 Rev:1.0

FR101FL THRU FR107FL

PACKAGE OUTLINE



Dimensions in milimeters

ORDERING INFORMATION

Device	Package	Shipping
FR101FL thru FR107FL	SOD-123FL	3,000/Tape & Reel (7 inches)

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