# **HIGH-SPEED SWITCHING DIODE**

Forward Current-150mA

### FEATURES

- For surface mount applications
- Glass passivated chip junction
- Fast reverse recovery time
- Ideal for automated placement
- Lead free in comply with EU RoHS 2011/65/EU directives

### MECHANICAL DATA

- Case: SOD-123FL molded plastic body
- Terminals:Solderable per MIL-STD-750,Method 2026
- Weight: Approximated 0.015 grams

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^\circ\!\!\mathbb{C}$  ambient temperature unless otherwise specified.

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

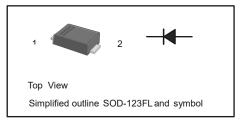
PARAMETER	SYMBOL	1N4148FL	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Maximum RMS Voltage	V <sub>RMS</sub>	75	V
Reverse Breakdown Voltage at I <sub>R</sub> =1µA	V <sub>(BR)R</sub>	75	V
Maximum Forward Current	lF	150	mA
Peak Forward Surge Current (Note1)	I <sub>FSM</sub>	4	Α
Maximum Forward Voltage at 1 mA 10mA 50mA 150mA	VF	0.715 0.855 1.00 1.25	V
Peak Reverse Current at V <sub>R</sub> =20V , T <sub>J</sub> =25°C V <sub>R</sub> =75V ,T <sub>J</sub> =25°C V <sub>R</sub> =25V ,T <sub>J</sub> =150°C V <sub>R</sub> =75V ,T <sub>J</sub> =150°C	IR	0.025 1 30 50	uA
Typical Junction Capacitance (Note2)	CJ	5	pF
Typical Thermal Resistance (Note3)	Reja	90	°C/W
Total Power Dissipation	PD	400	mW
Maximum Reverse Recovery Time	Trr	8	nS
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150	°C

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

2. Measured at 1MHz and applied reverse voltage of 4 V D.C.

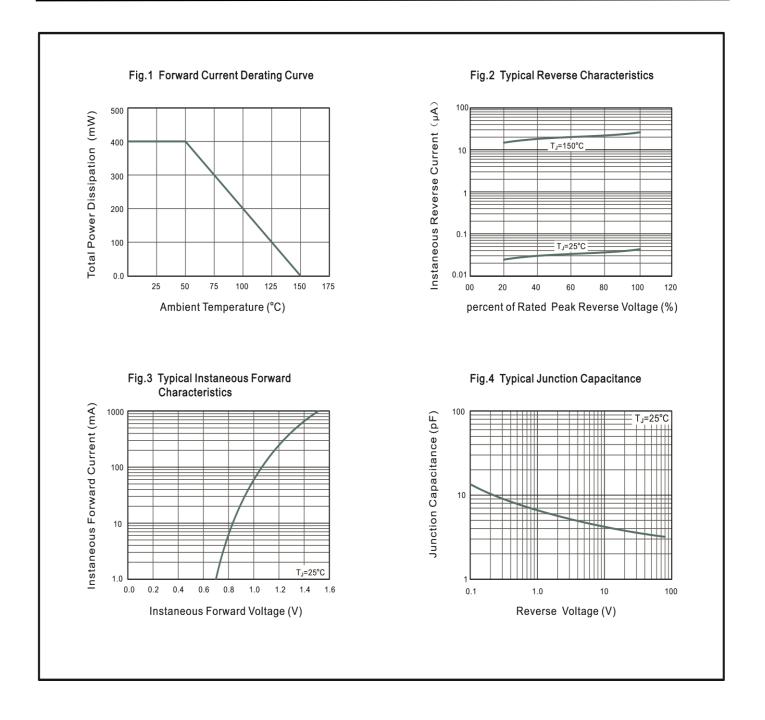
3. P.C.B. mounted with 2.0"  $\overleftarrow{X}$  2.0" (5 X 5 cm) copper pad areas.

PINNING	
PIN	DESCRIPTION
1	Cathode
2	Anode

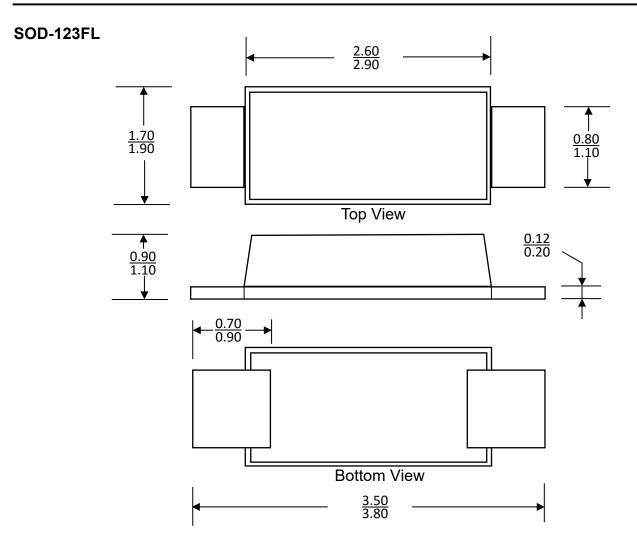


# 1N4148FL





## PACKAGE OUTLINE



**Dimensions in milimeters** 

#### **ORDERING INFORMATION**

Device	Package	Shipping
1N4148FL	SOD-123FL	3,000/Tape & Reel (7 inches)