



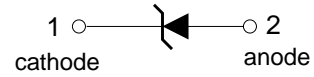
### Features

- Fast Switching Speed:trr=4ns
- Surface Mount Package Ideally Suited foe Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



RoHS  
COMPLIANT

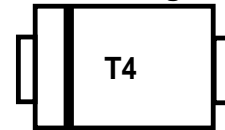
SOD-123FL



### Applications

- Surface mount fast switching diode

### Marking



### Maximum Ratings & Thermal Characteristics

(T<sub>A</sub> = 25 °C unless otherwise noted)

Parameter	Symbol	Limits	Unit
Repetitive Peak reverse voltage	V <sub>RRM</sub>	100	V
Reverse voltage	V <sub>R</sub>	75	V
Forward Continuous Current	I <sub>FM</sub>	300	mA
Average rectified current half wave rectification with resistive load	I <sub>F(AV)</sub>	150	mA
Peak forward surge current @=1.0us @=1.0S	I <sub>FSM</sub>	2.0 1.0	A
Power Dissipation	P <sub>d</sub>	400	mW
Thermal resistance from junction to lead <sup>(1)</sup>	R <sub>θJL</sub>	20	°C/W
Junction temperature	T <sub>J</sub>	150	°C
Storage temperature	T <sub>STG</sub>	-65 to +150	°C

Note 1: Mounted on P.C.B. with 0.036 x 0.06" (0.9 x 1.5mm) copper pad areas.

### Electrical Ratings (T<sub>A</sub> = 25 °C unless otherwise noted)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F1</sub>			1	V	I <sub>F</sub> =10mA
	V <sub>F2</sub>			1.2	V	I <sub>F</sub> =100mA
Reverse current	I <sub>R</sub>			2	uA	V <sub>R</sub> =75V
Junction Capacitance	C <sub>J</sub>			2	pF	V <sub>R</sub> =0V, f=1MHz
Reverse Recovery Time	trr			4	ns	I <sub>F</sub> =I <sub>R</sub> =10mA I <sub>rr</sub> =0.1X I <sub>R</sub> , R <sub>L</sub> =100 Ω



## Typical Characteristics (T<sub>A</sub> = 25 °C unless otherwise noted)

Fig. 1 Forward Characteristics

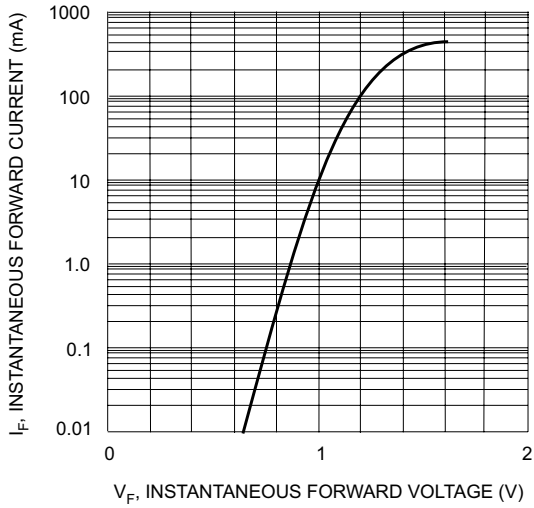
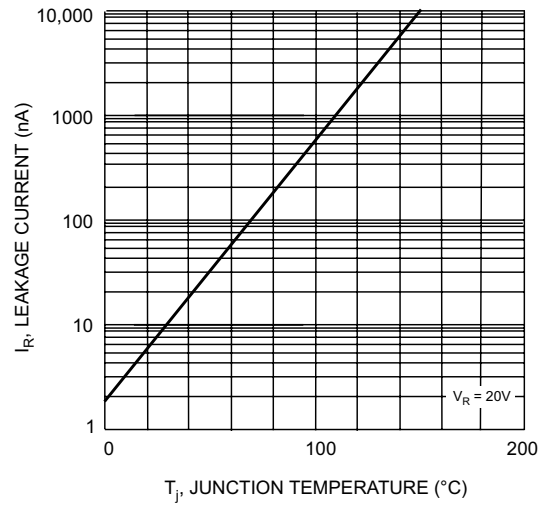


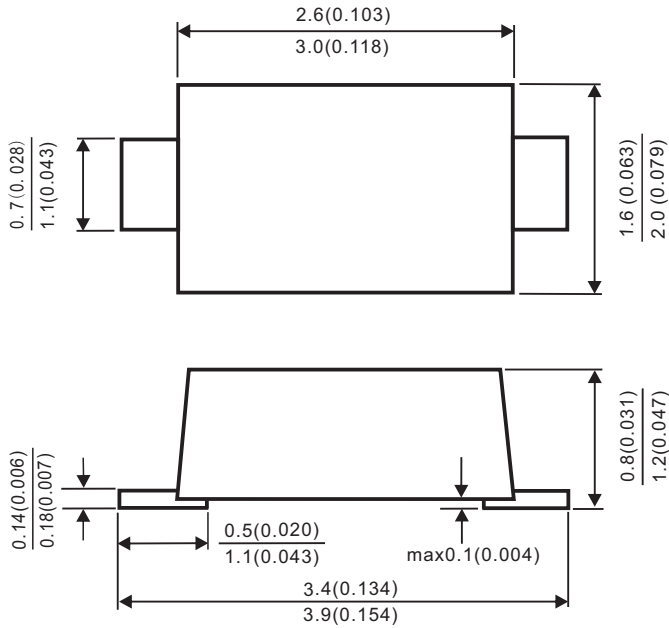
Fig.2 Leakage Current vs Junction Temperature





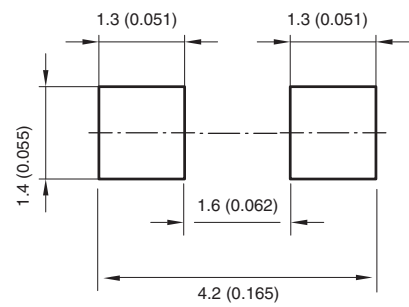
## Package Outline

SOD-123FL



Dimensions in millimeters and(inches)

Mounting Pad Layout



## Ordering Information

Outline	Reel (PCS)	Per Carton (PCS)	Reel Diameters (mm)
Taping	3,000	240,000	178/7 "

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