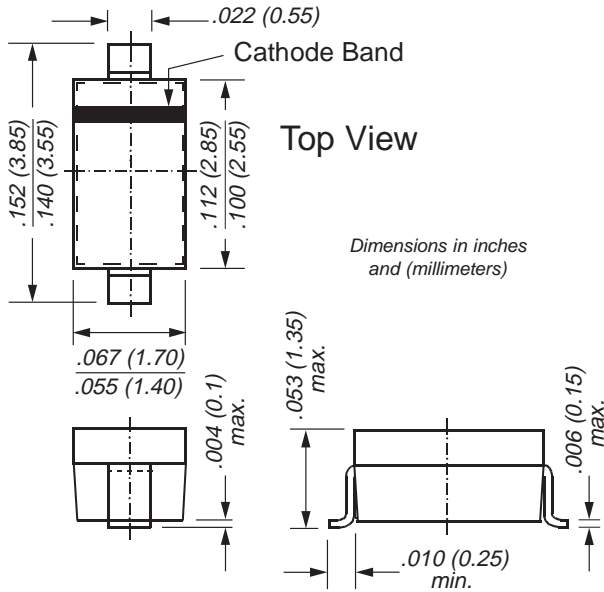


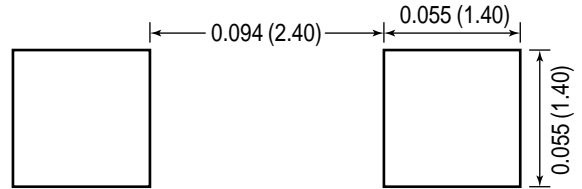


# Small-Signal Diode

SOD-123



## Mounting Pad Layout



## Mechanical Data

**Case:** SOD-123 Plastic Case

**Weight:** approx. 0.01g

**Marking Code:** A4

**Packaging Codes/Options:**

D3/10K per 13" reel (8mm tape), 30K/box

D4/3K per 7" reel (8mm tape), 30K/box

## Features

- Silicon Epitaxial Planar Diode
- For general purpose and switching
- This diode is also available in other case styles including the DO-35 case with the type designation 1N4150, and the MiniMELF case with the type designation LL4150.

## Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Reverse Voltage	V <sub>RM</sub>	50	V
Maximum Average Rectified Current	I <sub>F(AV)</sub>	200	mA
Maximum Power Dissipation at T <sub>amb</sub> = 25°C	P <sub>tot</sub>	410 <sup>(1)</sup>	mW
Maximum Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>s</sub>	-65 to +150	°C

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage Drop	V <sub>F</sub>	I <sub>F</sub> = 200mA	—	—	1.05	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 50V	—	—	100	nA
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> = 10 to 200mA to I <sub>rr</sub> = 0.1I <sub>F</sub>	—	—	4.0	ns

**Note:** (1) Valid provided that electrodes are kept at ambient temperature.



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