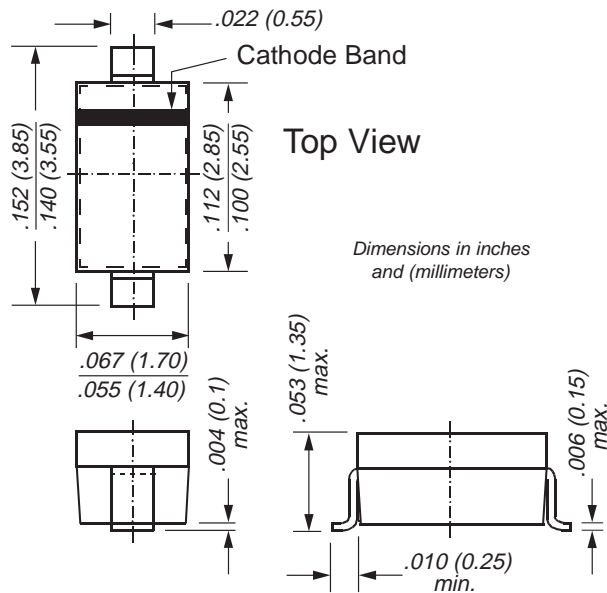


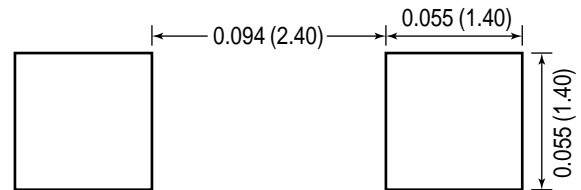


Small-Signal Diode

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_A = 25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Reverse Voltage	V _{RM}	50	V
Maximum Average Rectified Current	I _{F(AV)}	200	mA
Maximum Power Dissipation at T _{amb} = 25°C	P _{tot}	410 ⁽¹⁾	mW
Maximum Junction Temperature	T _j	150	°C
Storage Temperature Range	T _s	-65 to +150	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage Drop	V _F	I _F = 200mA	—	—	1.05	V
Reverse Current	I _R	V _R = 50V	—	—	100	nA
Reverse Recovery Time	t _{rr}	I _F = I _R = 10 to 200mA to I _{rr} = 0.1I _F	—	—	4.0	ns

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