

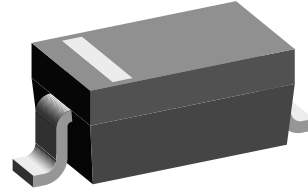
Small Signal Switching Diode

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.
- AEC-Q101 qualified
- Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC



RoHS
COMPLIANT



17431

Mechanical Data

Case: SOD-123

Weight: approx. 9.3 mg

Packaging codes/options:

GS18 / 10 k per 13" reel (8 mm tape), 10 k/box

GS08 / 3 k per 7" reel (8 mm tape), 15 k/box

Parts Table

Part	Ordering code	Marking	Remarks
1N4150W-V	1N4150W-V-GS18 or 1N4150W-V-GS08	A4	Tape and reel

Absolute Maximum Ratings

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Value	Unit
Peak reverse voltage		V_{RM}	50	V
Maximum average forward rectified current		$I_{F(AV)}$	200	mA
Maximum power dissipation		P_{tot}	410 ¹⁾	mW

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

Thermal Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

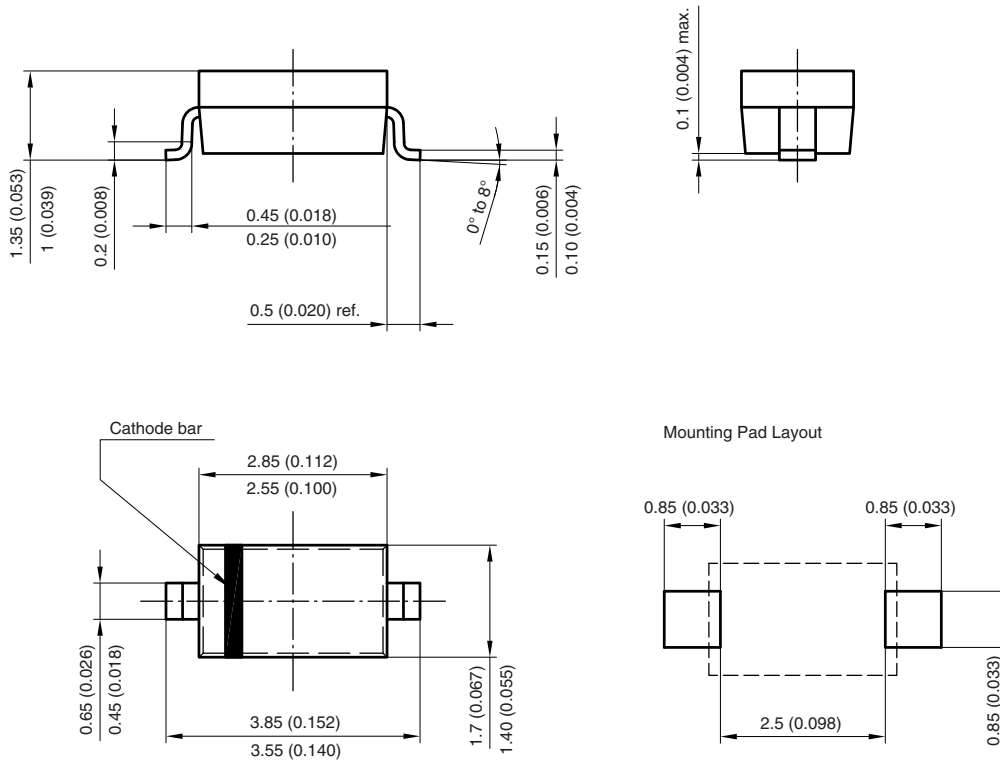
Parameter	Test condition	Symbol	Value	Unit
Maximum junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_S	- 65 to + 150	$^{\circ}\text{C}$

Electrical Characteristics

$T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test condition	Symbol	Min.	Typ.	Max.	Unit
Forward voltage drop	$I_F = 200\text{ mA}$	V_F			1	V
Reverse current	$V_R = 50\text{ V}$	I_R			100	nA
Reverse recovery time	$I_F = I_R = (10\text{ to }200)\text{ mA}$ to $I_{rr} = 0.1I_F$	t_{rr}			4	ns

Package Dimensions in millimeters (inches): SOD-123



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 17432



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