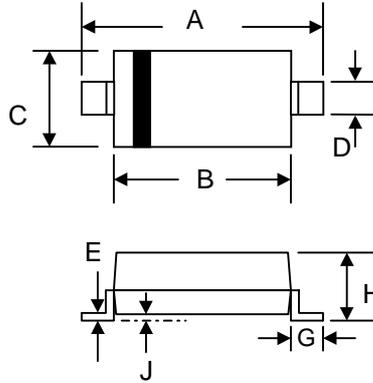


Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application
- Plastic Material – UL Recognition Flammability Classification 94V-O



SOD-123		
Dim	Min	Max
A	3.6	3.9
B	2.5	2.8
C	1.4	1.8
D	0.5	0.7
E	—	0.2
G	0.4	—
H	0.95	1.35
J	—	0.12
All Dimensions in mm		

Mechanical Data

- Case: SOD-123, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.01 grams (approx.)
- Marking: 1N4150W A4
1N4151W A5
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 4**

Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	50	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50		V
RMS Reverse Voltage	$V_{R(RMS)}$	35		V
Forward Continuous Current (Note 1)	I_{FM}	400	300	mA
Average Rectified Output Current (Note 1)	I_O	200	150	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\mu\text{s}$ @ $t = 1.0\text{s}$	I_{FSM}	4.0 1.0	2.0 0.5	A
Power Dissipation (Note 1)	P_d	410	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300		K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150		$^\circ\text{C}$

Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 4)	V_{FM}	1.0		V
Peak Reverse Leakage Current @ $V_R = 50\text{V}$	I_{RM}	100	50	nA
Typical Junction Capacitance ($V_R = 0\text{V DC}$, $f = 1.0\text{MHz}$)	C_j	2.5	2.0	pF
Reverse Recovery Time (Note 2, 3)	t_{rr}	4.0	2.0	nS

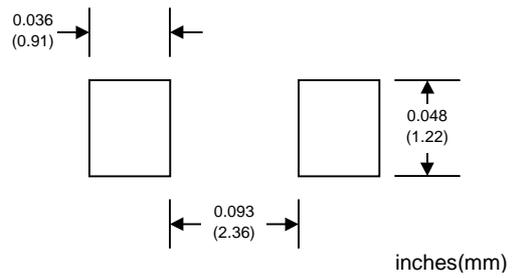
- Note: 1. Valid provided that terminals are kept at ambient temperature.
2. 1N4150W: Measured with $I_F = I_R = 200\text{mA}$, $I_{RR} = 0.1 \times I_R$, $R_L = 100\Omega$.
3. 1N4151W: Measured with $I_F = I_R = 10\text{mA}$, $I_{RR} = 1.0 \times I_R$, $R_L = 100\Omega$.
4. 1N4150W: Measured with $I_F = 200\text{mA}$. 1N4151W: Measured with $I_F = 10\text{mA}$

MARKING INFORMATION



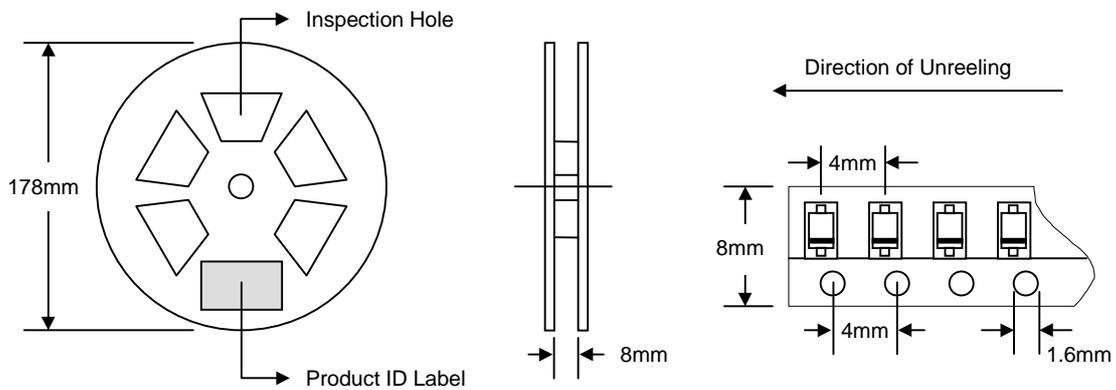
Cathode = Polarity Band
 Ax = Device Code
 x = 4 (1N4150W) or 5 (1N4151W)

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.
 2. Components are packed in accordance with EIA standard 481-1 and 481-2.

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
1N4150W-T1	SOD-123	3000/Tape & Reel
1N4151W-T1	SOD-123	3000/Tape & Reel

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
2. **To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, 1N4150W-T1-LF.**

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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