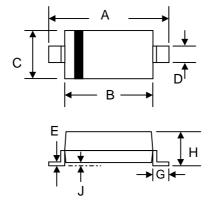


SURFACE MOUNT FAST SWITCHING DIODE

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		
Α	3.6	3.9		
В	2.5	2.8		
С	1.4	1.8		
D	0.5	0.7		
Е	_	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

$\begin{tabular}{ll} \textbf{Maximum Ratings} @ T_A = 25 ^{\circ} C \ unless \ otherwise \ specified \\ \end{tabular}$

Characteristic	Symbol	1N4150W	1N4151W	Unit	
Non-Repetitive Peak Reverse Voltage		VRM	50	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50		V
RMS Reverse Voltage		VR(RMS)	35		V
Forward Continuous Current (Note 1)		Iғм	400	300	mA
Average Rectified Output Current (Note 1)		lo	200	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0µs @ t = 1.0s		IFSM	4.0 1.0	2.0 0.5	А
Power Dissipation (Note 1)		Pd	410	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)		$R_{ heta}$ JA	300		K/W
Operating and Storage Temperature Range		Тj, Тsтg	-65 to +150		°C

$\textbf{Electrical Characteristics} \ @\textit{T}_{A} = 25^{\circ}\textit{C unless otherwise specified}$

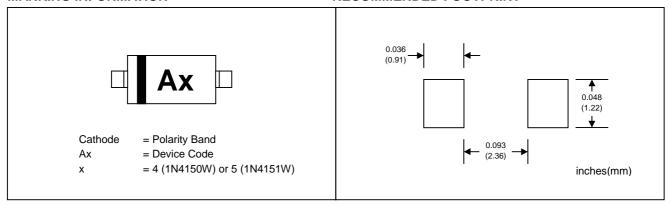
Characteristic	Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 4)	VFM	1.0		٧
Peak Reverse Leakage Current @ VR = 50V	IRM	100	50	nA
Typical Junction Capacitance (VR = 0V DC, f = 1.0MHz)	Cj	2.5	2.0	pF
Reverse Recovery Time (Note 2, 3)	trr	4.0	2.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature.

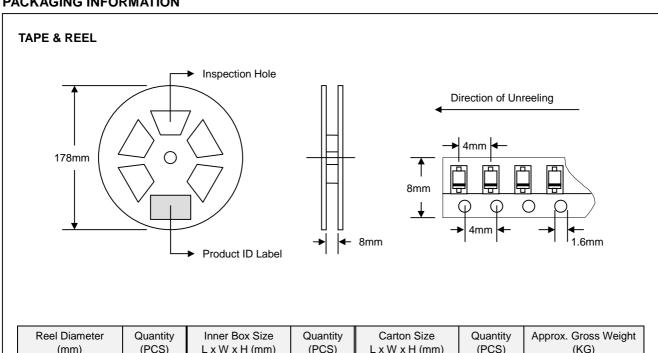
- 2. 1N4150W: Measured with IF = IR = 200mA, IRR = 0.1 x IR, RL = 100Ω .
- 3. 1N4151W: Measured with IF = IR = 10mA, IRR = 1.0 x IR, RL = 100 Ω .
- 4. 1N4150W: Measured with IF = 200mA. 1N4151W: Measured with IF = 10mA

MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



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		

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

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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