

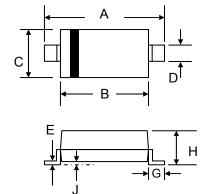
1N4150W / 1N4151W

SURFACE MOUNT FAST SWITCHING DIODE



Features

- Silicon Epitaxial Planar Die Construction
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0



SOD-123					
Dim	Min	Max			
Α	3.60	3.90			
В	2.50	2.80			
С	1.40	1.80			
D	0.30	0.78			
Е	-	0.25			
G	0.15	_			
Н	0.95	1.35			
J	_	0.15			
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: Device Code, See Page 3

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4

Characteristic		Symbol	1N4150W	1N4151W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	75	V
Repetitive Peak Forward Current		IFRM	400	300	mA
Continuous Forward Current		lo	200	150	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	İFSM	4.0 1.0	2.0 0.5	А
Operating and Storage Temperature Range		ТJ, Tsтg	-55 to +150		°C

Thermal Characteristics

Characteristic	Symbol	1N4150W	1N4151W	Unit
Power Dissipation (Note 1)	PD	410		mW
Thermal Resistance, Junction to Ambient (Note 1)	al Resistance, Junction to Ambient (Note 1) R JA 375 450		450	K/W

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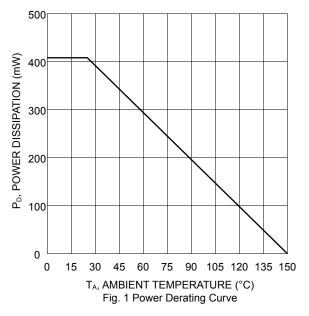


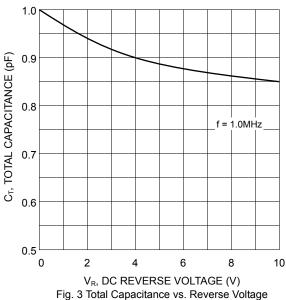
$\textbf{Electrical Characteristics} \ @\textit{T}_{A}\text{=-}25^{\circ}\textit{C} \ unless \ otherwise \ specified$

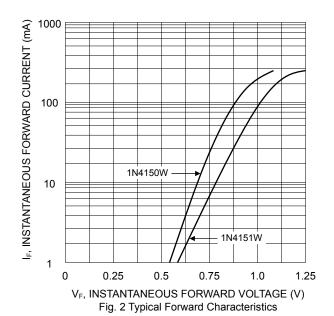
Characteristic		Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 2)		VFM	1.0		V
Peak Reverse Leakage Current	@ VR = 50V	IRM	100	50	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D	2.5	2.0	pF
Reverse Recovery Time (Note 3)		trr	4.0	2.0	nS

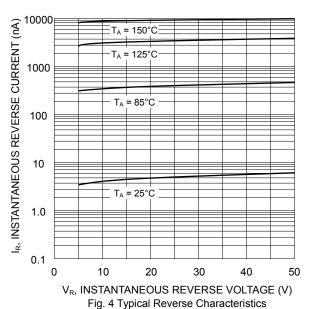
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.

- 2. 1N4150W: Measured with IF = 200mA. 1N4151W: Measured with IF = 50mA.
- 3. Measured with IF=10mA, VR=6.0V, IRR=1.0mA, RL=100 Ω .





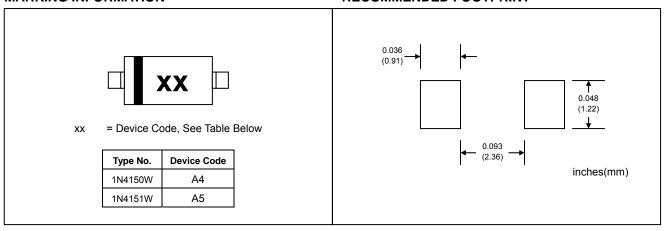




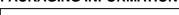


MARKING INFORMATION

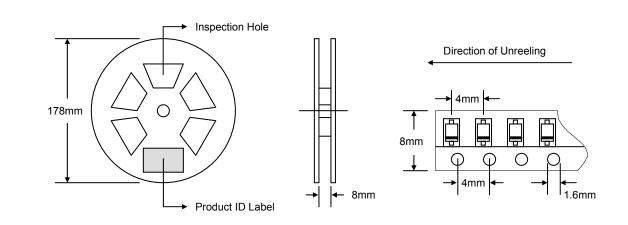
RECOMMENDED FOOTPRINT



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

- 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" 2. 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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