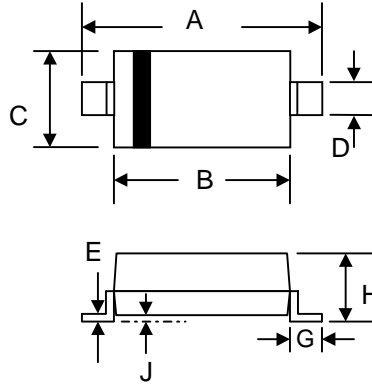


1N4150W / 1N4151W

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
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

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 $I_F = 10\text{mA}$.

ORDERING INFORMATION

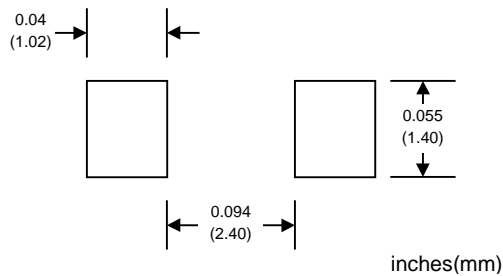
Product No.♦	Package Type	Shipping Quantity
1N4150W-T1	SOD-123	3000/Tape & Reel
1N4150W-T3	SOD-123	10000/Tape & Reel
1N4151W-T1	SOD-123	3000/Tape & Reel
1N4151W-T3	SOD-123	10000/Tape & Reel

Products listed in **bold** are WTE Preferred devices.

♦T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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.

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