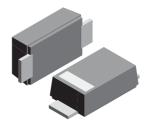


1N4150W - 1N4151W

SURFACE MOUNT FAST SWITCHING DIODE



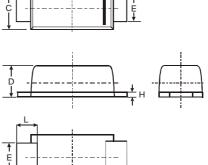
Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application

Mechanical Data

- Case: SOD-123FL plastic body over passivated junction
- Terminals: Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams





SOD-123FL						
Dim	Min	Max	Тур			
Α	3.58	3.72	3.65			
В	2.72	2.78	2.75			
С	1.77	1.83	1.80			
D	1.02	1.08	1.05			
Е	0.097	1.03	1.00			
Н	0.13	0.17	0.15			
L	0.53	0.57	0.55			
All Dimensions in mm						

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, Tsтg	-65 to +150		°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic		Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 4)		VFM	1.0		V
Peak Reverse Leakage Current	@ VR = 50V	lгм	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 = 100Ω .
- 4. 1N4150W: Measured with IF = 200mA. 1N4151W: Measured with IF = 10mA