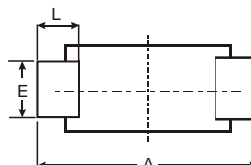
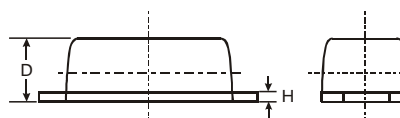
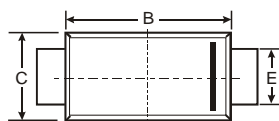


### Features

- 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	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

### Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	50	75	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	50		V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	35		V
Forward Continuous Current (Note 1)	I <sub>FM</sub>	400	300	mA
Average Rectified Output Current (Note 1)	I <sub>O</sub>	200	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0μs @ t = 1.0s	I <sub>FSM</sub>	4.0 1.0	2.0 0.5	A
Power Dissipation (Note 1)	P <sub>d</sub>	410	500	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	R <sub>θJA</sub>	300		K/W
Operating and Storage Temperature Range	T <sub>j</sub> , T <sub>STG</sub>	-65 to +150		°C

### Electrical Characteristics @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	1N4150W	1N4151W	Unit
Forward Voltage Drop (Note 4)	V <sub>FM</sub>	1.0		V
Peak Reverse Leakage Current @ V <sub>R</sub> = 50V	I <sub>RM</sub>	100	50	nA
Typical Junction Capacitance (V <sub>R</sub> = 0V DC, f = 1.0MHz)	C <sub>j</sub>	2.5	2.0	pF
Reverse Recovery Time (Note 2, 3)	t <sub>rr</sub>	4.0	2.0	nS

- Note: 1. Valid provided that terminals are kept at ambient temperature.  
 2. 1N4150W: Measured with I<sub>F</sub> = I<sub>R</sub> = 200mA, I<sub>RR</sub> = 0.1 x I<sub>R</sub>, R<sub>L</sub> = 100Ω.  
 3. 1N4151W: Measured with I<sub>F</sub> = I<sub>R</sub> = 10mA, I<sub>RR</sub> = 1.0 x I<sub>R</sub>, R<sub>L</sub> = 100Ω.  
 4. 1N4150W: Measured with I<sub>F</sub> = 200mA. 1N4151W: Measured with I<sub>F</sub> = 10mA