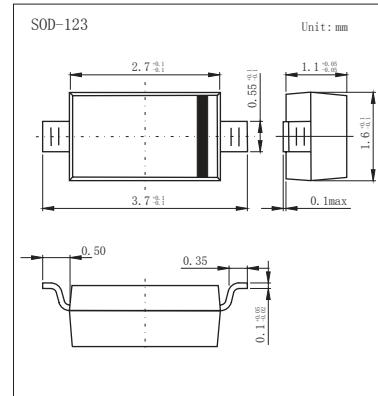


## Switching Diodes

### 1N4148W

#### ■ Features

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



#### ■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Reverse Voltage	V <sub>RM</sub>	100	V	
Peak Repetitive Peak Reverse Voltage	V <sub>R<sub>RRM</sub></sub>	100		
Working Peak Reverse Voltage	V <sub>R<sub>RWM</sub></sub>			
DC Blocking Voltage	V <sub>R</sub>			
RMS Reverse Voltage	V <sub>R(RMS)</sub>	71		
Average Rectified Output Current	I <sub>O</sub>	150	mA	
Forward Continuous Current	I <sub>FM</sub>	300		
Peak Forward Surge Current @ t=1us @ t=1s	I <sub>FSM</sub>	2 1	A	
Power Dissipation	P <sub>d</sub>	500		
Thermal Resistance Junction to Ambient	R <sub>θ JA</sub>	250	°C/W	
Junction Temperature	T <sub>J</sub>	150	°C	
Storage Temperature range	T <sub>Stg</sub>	-55 to 150		

#### ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V <sub>R</sub>	I <sub>R</sub> = 100uA	100			V
Forward voltage	V <sub>F1</sub>	I <sub>F</sub> = 1mA			0.715	
	V <sub>F2</sub>	I <sub>F</sub> = 10 mA			0.855	
	V <sub>F3</sub>	I <sub>F</sub> = 50 mA			1	
	V <sub>F4</sub>	I <sub>F</sub> = 150 mA			1.25	
Reverse voltage leakage current	I <sub>R1</sub>	V <sub>R</sub> = 75 V			1	uA
	I <sub>R2</sub>	V <sub>R</sub> =20 V			25	nA
Junction capacitance	C <sub>j</sub>	V <sub>R</sub> = 0 V, f= 1 MHz			2	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>f</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =0.1xI <sub>R</sub> , R <sub>L</sub> =100Ω			4	ns

#### ■ Marking

Marking	T4
---------	----

## Switching Diodes

**1N4148W**

■ Typical Characteristics

