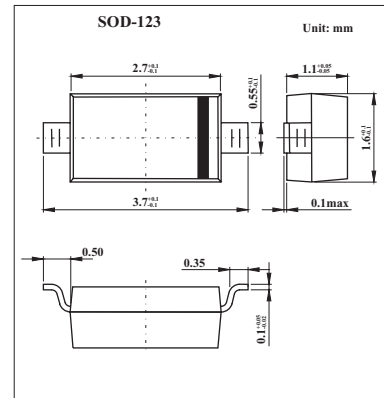


1N4448W

■ **Features**

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



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

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{R(RM)}		
Working Peak Reverse Voltage	V _{R(WM)}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	I _O	250	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μs	I _{FSM}	4.0	A
@ t = 1.0s		2.0	
Power Dissipation	P _D	400	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	315	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150	°C



1N4448W

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage (*)	V _{(BR)R}	I _R = 10 μ A	75			V
Forward Voltage (*)	V _F	I _F = 5.0mA	0.62		0.72	V
		I _F = 10mA			0.855	
		I _F = 100mA			1.0	
		I _F = 150mA			1.25	
Leakage Current (*)	I _R	V _R = 75V			2.5	μ A
		V _R = 75V, T _j = 150°C			50	
		V _R = 25V, T _j = 150°C			30	
		V _R = 20V			25	
Total Capacitance	C _T	V _R = 0, f = 1.0MHz			4.0	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100 Ω			4.0	ns

* Short duration test pulse used to minimize self-heating effect.

■ Marking

Marking	T5
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