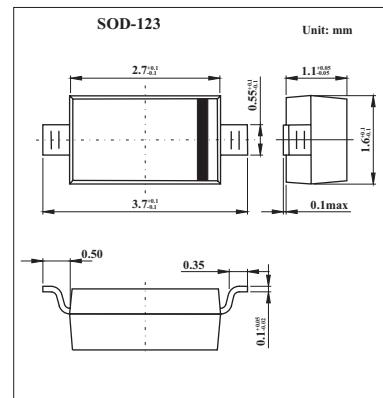


Surface Mount Fast Switching Diodes

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 μ s @ t = 1.0s	I _{FSM}	4.0 2.0	A
Power Dissipation	P _D	400	mW
Thermal Resistance Junction to Ambient Air	R _{θ JA}	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	IR = 10 µ A	75			V
Forward Voltage (*)	VF	IF = 5.0mA	0.62		0.72	V
		IF = 10mA			0.855	
		IF = 100mA			1.0	
		IF = 150mA			1.25	
Leakage Current (*)	IR	VR = 75V			2.5	µ A
		VR = 75V, Tj = 150°C			50	
		VR = 25V, Tj = 150°C			30	
		VR = 20V			25	nA
Total Capacitance	C _T	VR = 0, f = 1.0MHz			4.0	pF
Reverse Recovery Time	t _{rr}	IF = IR = 10mA, I _{rr} = 0.1 x IR, RL = 100 Ω			4.0	ns

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

■ Marking

Marking	T5
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