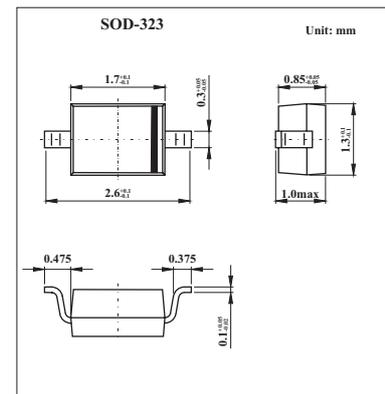


Surface Mount Fast Switching Diodes

1N4448WS

■ Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V_{RWM}	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 @ $t = 1.0 \mu\text{s}$	I_{FSM}	4.0	A
@ $t = 1.0\text{s}$		2.0	
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$

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■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage (*)	V(BR)R	I _R = 2.5 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	nA
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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