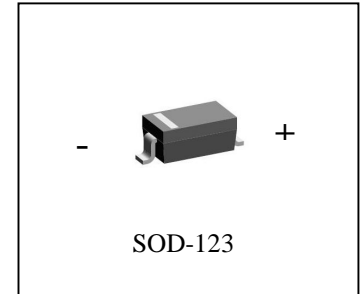


FAST SWITCHING DIODES
1N4148W
FEATURES

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


MARKING: T4
MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}	75	V
DC Blocking	V_R	75	V
RMS Reverse Voltage	$R(RMS)$	53	V
Forward Continuous Current	I_{FM}	300	mA
Average Rectified Output Current	I_O	150	mA
Peak forward surge current @=1.0μs	I_{FSM}	2.0	A
Peak forward surge current @=1.0s	I_{FSM}	1.0	A
Power Dissipation	P_d	500	mW
Thermal	$R_{\theta JA}$	250	°C/W
Junction temperature	T_j	150	°C
Storage temperature	T_{STG}	-65~+150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_{F1}			0.715	V	$I_F = 1\text{mA}$
Forward voltage	V_{F2}			0.855	V	$I_F = 10\text{mA}$
Forward voltage	V_{F3}			1.0	V	$I_F = 50\text{mA}$
Forward voltage	V_{F4}			1.25	V	$I_F = 150\text{mA}$
Reverse current	I_{R1}			1	μA	$V_R = 75\text{V}$
Reverse current	I_{R2}			25	nA	$V_R = 20\text{V}$
Capacitance between terminals	C_T			2	pF	$V_R = 0\text{V}, f = 1\text{MHz}$
Reverse Recovery Time	t_{rr}			4	ns	$I_F = I_R = 10\text{mA}$ $I_{rr} = 0.1 I_R, R_L = 100\ \Omega$

1N4148W Typical Characteristics

