

SOD-523 Plastic-Encapsulate Diodes

1N4148WT

FAST SWITCHING DIODE

SOD-523

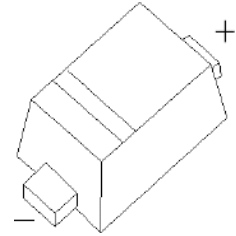
FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion

MARKING:T4



Polarity symbols marked on case



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Peak Repetitive Reverse Voltage	V _{RRM}		
Working Peak Reverse Voltage	V _{RWM}		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Average Rectified Output Current	I _O	150	mA
Forward Continuous Current	I _{FM}	300	mA
Non-repetitive Peak Forward Surge Current@t= 8.3ms	I _{FSM}	2	A
Power Dissipation	P _D	150	mW
Thermal Resistance from Junction to Ambient Junction	R _{ΘJA}	833	°C/W
Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V _(BR)	I _R =1μA	75			V
Reverse current	I _R	V _R =75V			1	μA
		V _R =20V			25	nA
Forward voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Total capacitance	C _{tot}	V _R =0V, f=1MHz			2	pF
Reverse recovery time	t _{rr}	I _F = I _R =10mA, I _{rr} =0.1*I _R , R _L =100 Ω			4	ns

Typical Characteristics

