

1N4148WT

200mW SOD-523 SURFACE MOUNT

Very Small Outline Flat Lead Plastic Package General Purpose Application Fast Switching Diode

Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
PD	Power Dissipation	200	mW
T _{STG}	Storage Temperature Range	-55 to +150	С
TJ	Operating Junction Temperature	+150	C
V _{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V _{RRM}	Repetitive Peak Reverse Voltage	75	V
I _{FRM}	Repetitive Peak Forward Current	300	mA
lo	Continuous Forward Current	150	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current (Pulse Width=1us)	2	А

These ratings are limiting values above which the serviceability of the diode may be impaired.

Specification Features:

- Fast Switching Device (T_{RR} < 4.0 nS)</p>
- General Purpose Diodes
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode
- Weight: approx. 0.002g

Electrical Characteristics T_A = 25°C unless otherwise noted

Cumula al	Parameter	Test Condition	Limits		11
Symbol			Min	Max	Unit
Bv	Breakdown Voltage	I _R =100μΑ	100		Valta
		I _R =5μA	75		VOILS
I _R	Reverse Leakage Current	V _R =20V		25	nA
		V _R =75V		5	μA
VF	Forward Voltage	I _F =5mA	0.62	0.72	
		I _F =10mA		1.0	Volts
		I _F =100mA		1.0	
T _{RR}	Reverse Recovery Time	I _F =10mA			
		I _R =60mA		4	20
		R_L =100 Ω		4	115
		I _{RR} =1mA			
С	Capacitance	V_R =0V, f=1 M_{HZ}		4	pF





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Typical Performance Characteristics



Reverse Voltage (V)



Forward Voltage vs Ambient Temperature

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Power Derating Curve PD - Power Dissipation [mW] Temperature [°C]





Reverse Voltage, VR (V)



Flat Lead SOD-523 Package Outline



Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.

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