



1N4148WT

Silicon Epitaxial Planar Switching Diodes

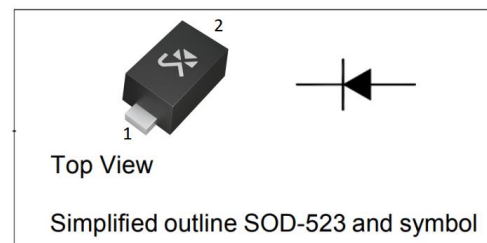
Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications
- High conductance

Marking:T4

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings@T_a = 25°C unless otherwise specified

Parameter		Symbol	1N4148WT	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	100	V
Maximum RMS Voltage		V _{RMS}	75	V
Average Rectified Forward Current		I _{F(AV)}	100	mA
Forward Continuous Current		I _{FM}	300	mA
Non-Repetitive Peak Forward Surge Current	at 1μs	I _{FSM}	2	A
	at 100ms		1	A
Total Power Dissipation		P _{tot}	150	mW
Thermal Resistance Junction to Ambient Air		R _{θJA}	883	°C/W
Operating Temperature Range		T _J	-55~+150	°C
Storage Temperature Range		T _{STG}	-55~+150	°C

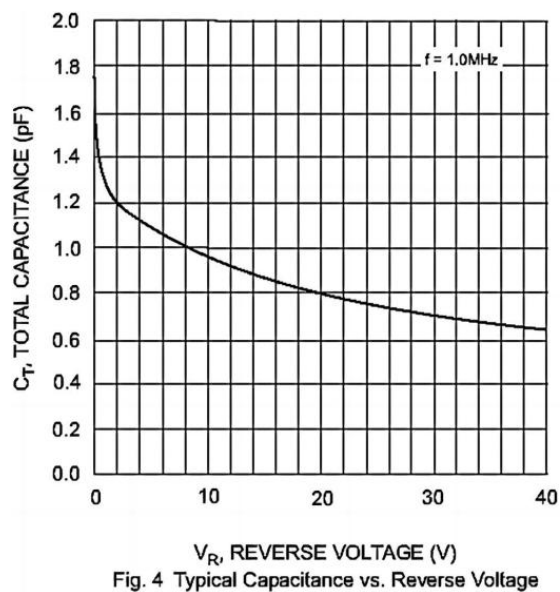
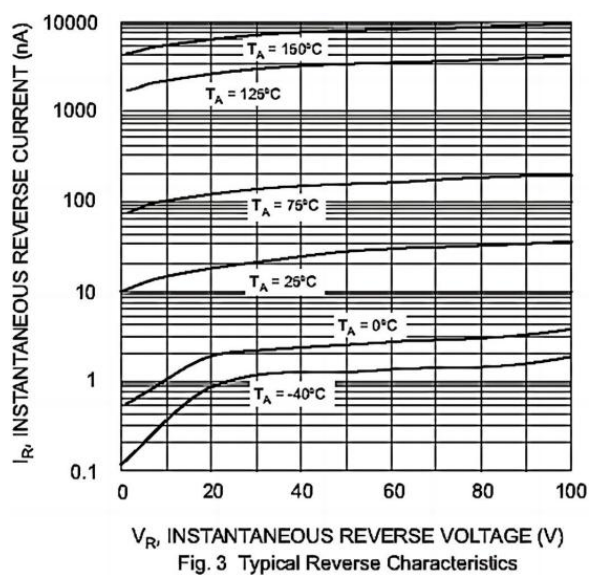
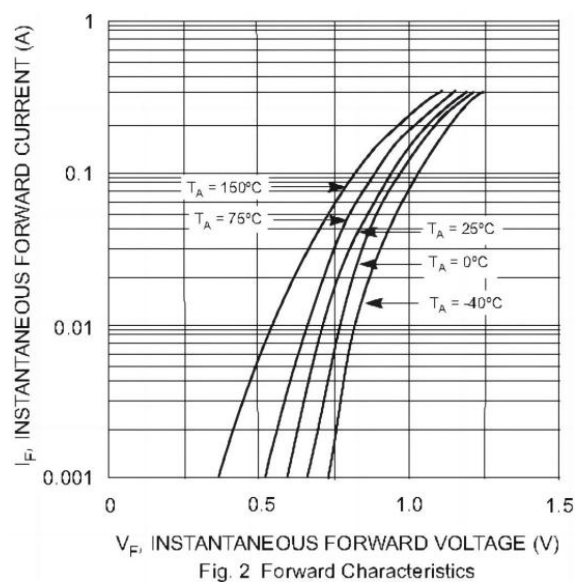
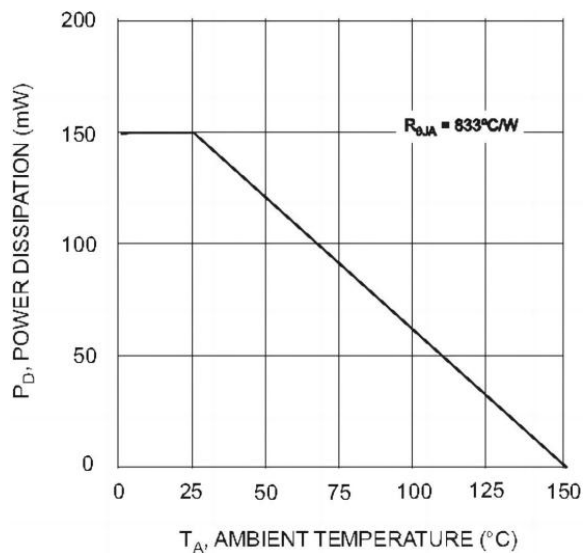
Electrical Characteristics@T_a = 25 °C, unless specified otherwise

Parameter	Symbol	Test Condition	1N4148WT	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =1μA	75	V
Maximum Forward Voltage	V _F	I _F =1mA	0.715	V
		I _F =10mA	0.855	V
		I _F =50mA	1.00	V
		I _F =150mA	1.25	V
Peak Reverse Current	I _R	V _R =20V, T _J =25°C	0.025	μA
		V _R =75V, T _J =25°C	1	μA
		V _R =25V, T _J =150°C	30	μA
		V _R =75V, T _J =150°C	50	μA
Typical Junction Capacitance	C _J	V _R =0V, f=1MHz	2	pF
Maximum Revers Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1*I _R , R _L =100Ω	4	ns



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Typical Characteristics



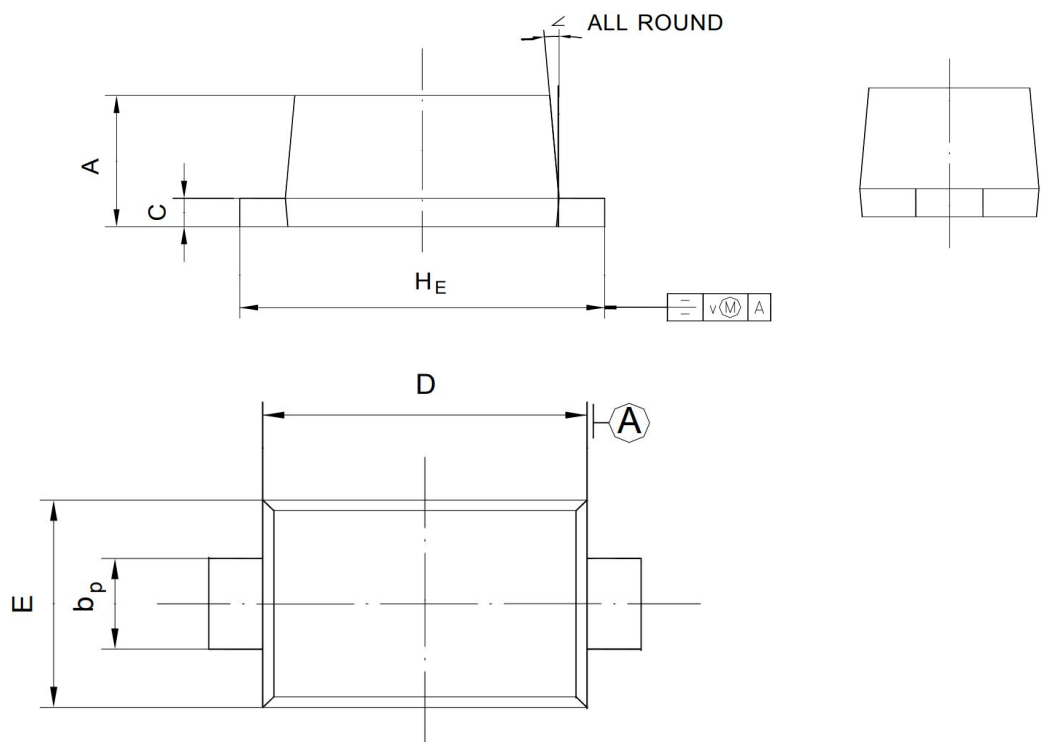


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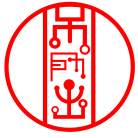
Package Information

SOD-523

Dimensions in mm



UNIT	A	b _p	C	D	E	H _E	V	∠
mm	0.70 0.60	0.4 0.3	0.135 0.100	1.25 1.15	0.85 0.75	1.7 1.5	0.1	5°



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