



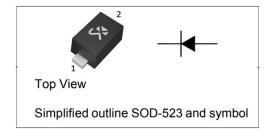
Silicon Epitaxial Planar Switching Diodes

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@Ta = 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	$R_{ heta JA}$	883	°C/W	
Operating Temperature Range	$T_{\rm J}$	-55~+150	°C	
Storage Temperature Range	T_{STG}	-55~+150	°C	

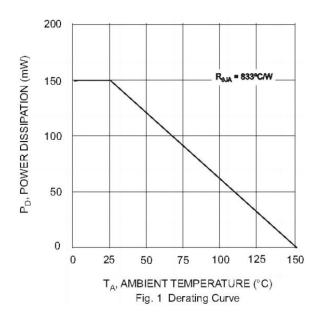
Electrical Characteristics@Ta = 25 °C, unless specified otherwise

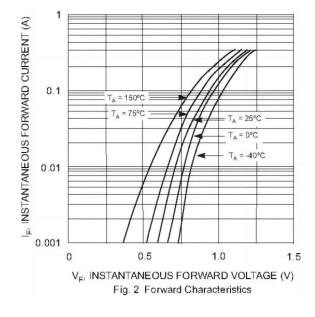
Parameter	Symbol	Test Condition	1N4148WT	Unit
Reverse Breakdown Voltage	V _{(BR)R}	$I_R=1\mu A$	75	V
	V_{F}	I _F =1mA	0.715	V
Maximum Forward Voltage		I _F =10mA	0.855	V
		I _F =50mA	1.00	V
		I _F =150mA	1.25	V
	I_R	V_R =20V, T_J =25°C	0.025	μΑ
Dools Davanca Cumant		V _R =75V, T _J =25°C	1	μΑ
Peak Reverse Current		$V_R = 25V, T_J = 150$ °C	30	μΑ
		$V_R = 75V, T_J = 150$ °C	50	μΑ
Typical Junction Capacitance	CJ	V _R =0V, f=1MHz	2	pF
Maximum Reveres Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA}, I_{rr} = 0.1 * I_R, R_L = 100 \Omega$	4	ns

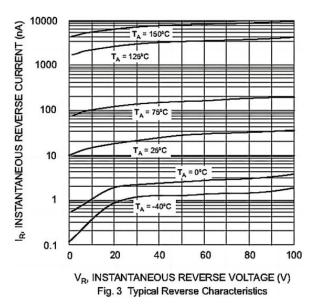
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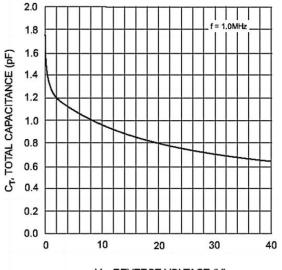


Typical Characteristics









 V_R , REVERSE VOLTAGE (V) Fig. 4 Typical Capacitance vs. Reverse Voltage

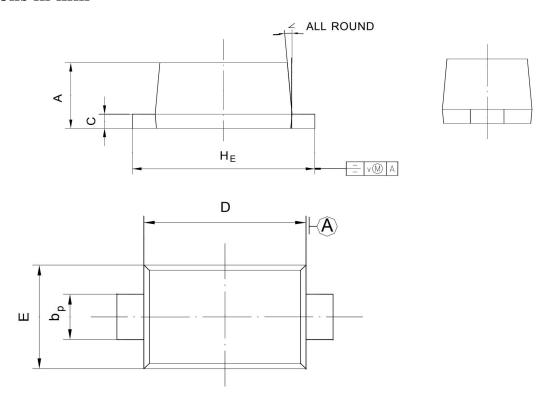
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Package Information

SOD-523

Dimensions in mm



UNIT	Α	bp	С	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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