

1N4148WT

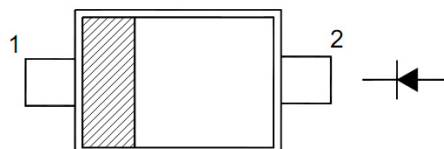
Silicon Epitaxial Planar Switching Diode

FEATURES

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

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: "A" or "T4"

Simplified outline SOD-523 and symbol

MAXIMUM RATINGS AND CHARACTERISTICS

Absolute Maximum Ratings (Ta = 25°C)

PARAMETER	SYMBOL	VALUE	UNIT
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	125	mA
Forward Continuous Current	I _{FM}	250	mA
Non-repetitive Peak Forward Surge Current	I _{FSM}	2 1	A
		at t = 1 μs at t = 100 m	
Power Dissipation	P _{tot}	150	mW
Thermal Resistance Junction to Ambient Air	R _{θJA}	833	°C/W
Operating Temperature Range	T _j	-65 to +150	°C
Storage Temperature Range	T _{stg}	-65 to +150	°C

Characteristics Ta = 25°C

PARAMETER	SYMBOL	MIN.	MAX.	UNIT
Reverse Breakdown Voltage at I _R = 1 μA	V _{(BR)R}	75	-	V
Forward Voltage	V _F	-	0.715	V
at I _F = 1 mA		-	0.855	
at I _F = 10 mA		-	1	
at I _F = 50 mA		-	1.25	
at I _F = 150 mA		-		
Peak Reverse Current	I _R	-	1	μA
at V _R = 75 V		-	25	μA
at V _R = 20 V		-	50	μA
at V _R = 75 V, T _j = 150°C		-	30	μA
at V _R = 25 V, T _j = 150°C		-		μA
Total Capacitance at V _R = 0 V, f = 1 MHz	C _T	-	2	pF
Reverse Recovery Time	t _{rr}	-	4	ns
at I _{rr} = 0.1 X I _R , I _F = I _R = 10 mA, R _L = 100 Ω				

RATINGS AND CHARACTERISTIC CURVES 1N4148WT

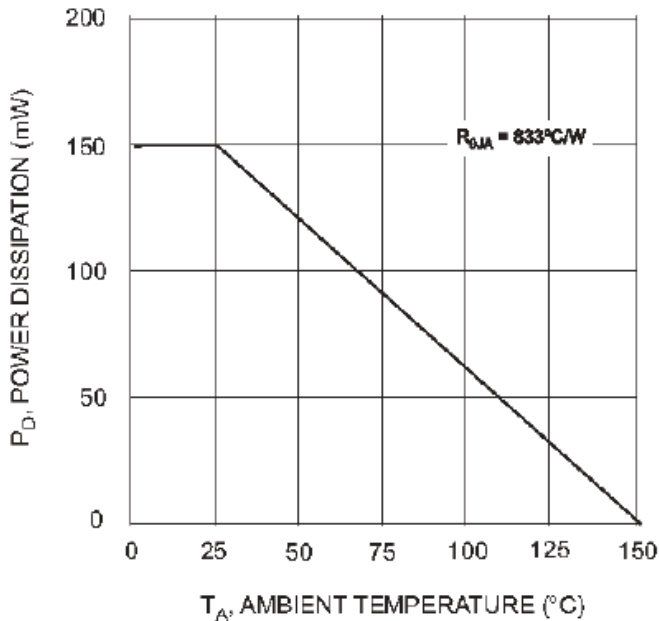


Fig. 1 Derating Curve

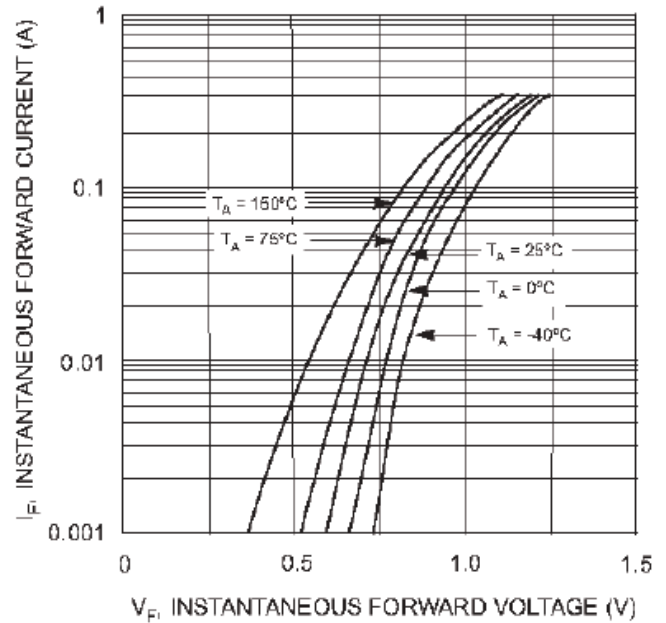


Fig. 2 Forward Characteristics

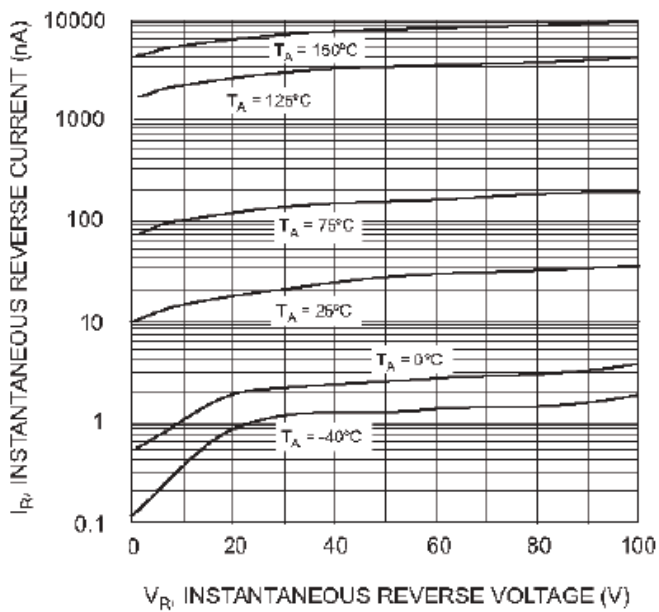


Fig. 3 Typical Reverse Characteristics

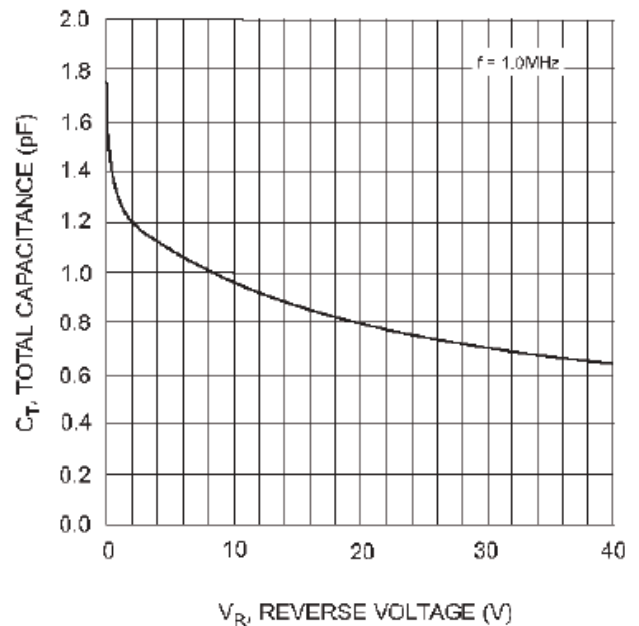
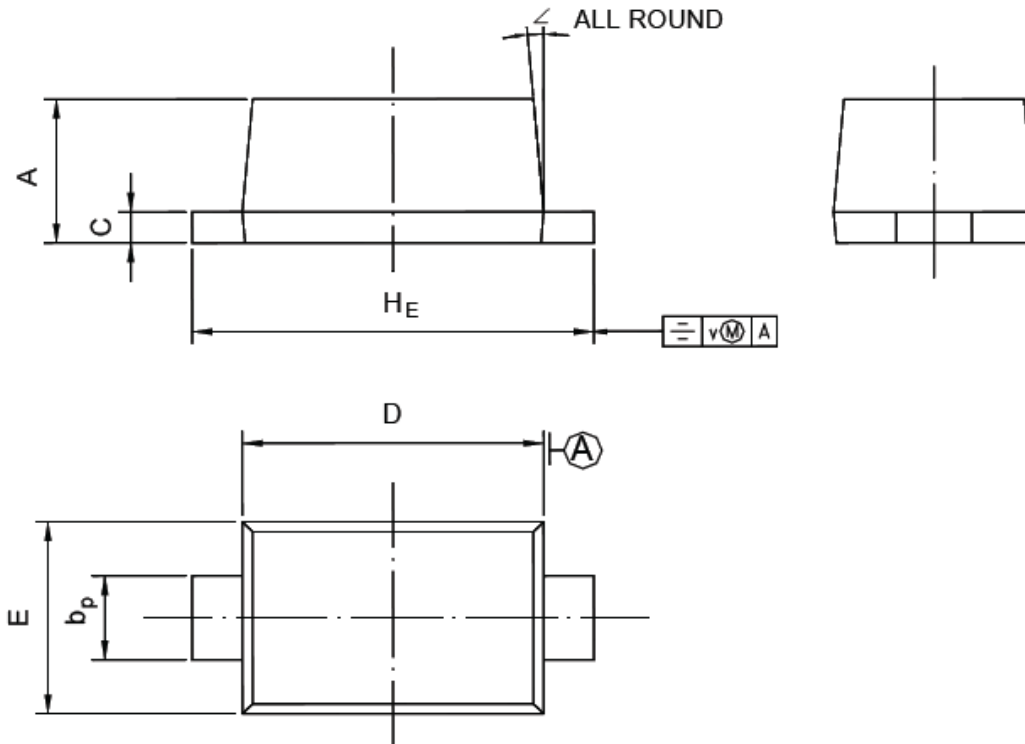


Fig. 4 Typical Capacitance vs. Reverse Voltage

RATINGS AND CHARACTERISTIC CURVES 1N4148WT

SOD-523 PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



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°

Note: Specifications are subject to change without notice. For more detail and update, please visit our website.