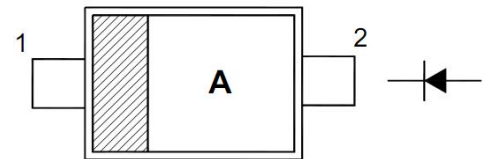


**Kingtronics**®**1N4148WT**Silicon Epitaxial Planar  
Switching Diode**FEATURES**

- 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 "

Simplified outline SOD-523 and symbol

**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	at t = 1 $\mu$ s	2	A
	at t = 100 ms	1	A
Power Dissipation	$P_{tot}$	150	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	833	°C/W
Operating Temperature Range	$T_j$	- 65 to + 150	°C
Storage Temperature Range	$T_{stg}$	- 65 to + 150	°C

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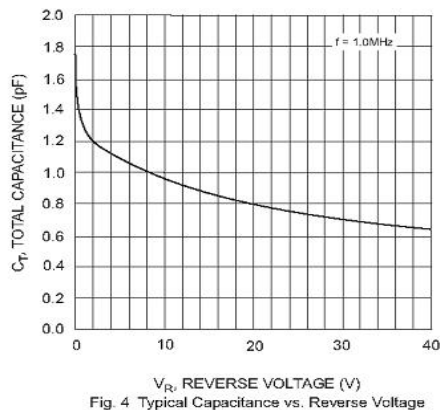
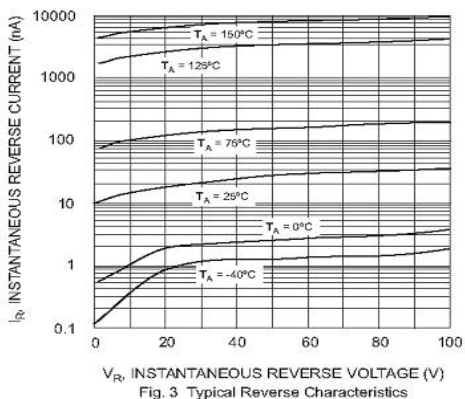
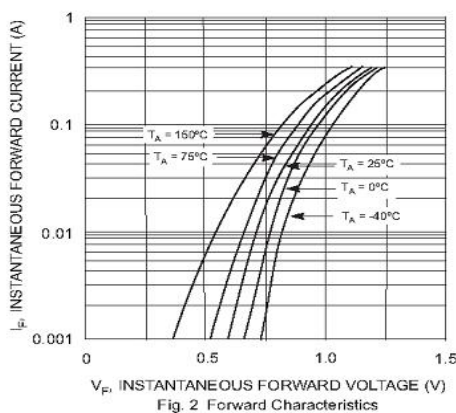
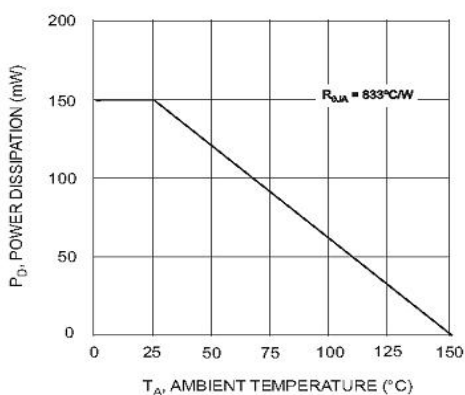
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# 1N4148WT

## Silicon Epitaxial Planar Switching Diode

### Electrical Characteristics (Ta = 25°C)

PARAMETER		SYMBOL	MIN.	MAX.	UNIT
Reverse Breakdown Voltage	at I <sub>R</sub> = 1 μA	V <sub>(BR)R</sub>	75	-	V
Forward Voltage	at I <sub>F</sub> = 1 mA	V <sub>F</sub>	-	0.715	V
	at I <sub>F</sub> = 10 mA		-	0.855	
	at I <sub>F</sub> = 50 mA		-	1	
	at I <sub>F</sub> = 150 mA		-	1.25	
Peak Reverse Current	at V <sub>R</sub> = 75 V	I <sub>R</sub>	-	1	μA
	at V <sub>R</sub> = 20 V		-	25	nA
	at V <sub>R</sub> = 75 V, T <sub>J</sub> = 150°C		-	50	μA
	at V <sub>R</sub> = 25 V, T <sub>J</sub> = 150°C		-	30	μA
Total Capacitance	at V <sub>R</sub> = 0 V, f = 1 MHz	C <sub>T</sub>	-	2	pF
Reverse Recovery Time	at I <sub>rr</sub> = 0.1 X I <sub>R</sub> , I <sub>F</sub> = I <sub>R</sub> = 10 mA, R <sub>L</sub> = 100 Ω	t <sub>rr</sub>	-	4	ns



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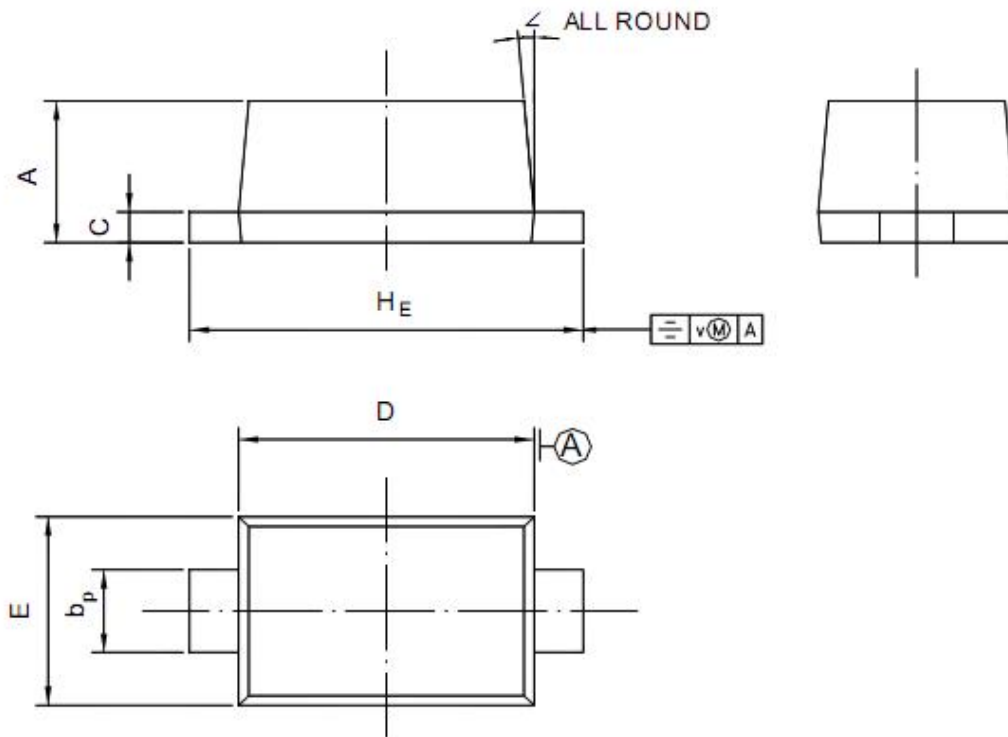
## 1N4148WT

Silicon Epitaxial Planar  
Switching Diode

### PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b <sub>p</sub>	C	D	E	H <sub>E</sub>	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.

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