

# 1N4148WS

# Silicon Epitaxial Planar Switching Diode

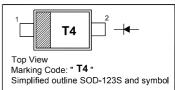
#### **Features**

- SOD-323 package
- Fast switching

**MARKING:**T4

#### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Absolute Maximum Ratings ( $T_a = 25$ °C)

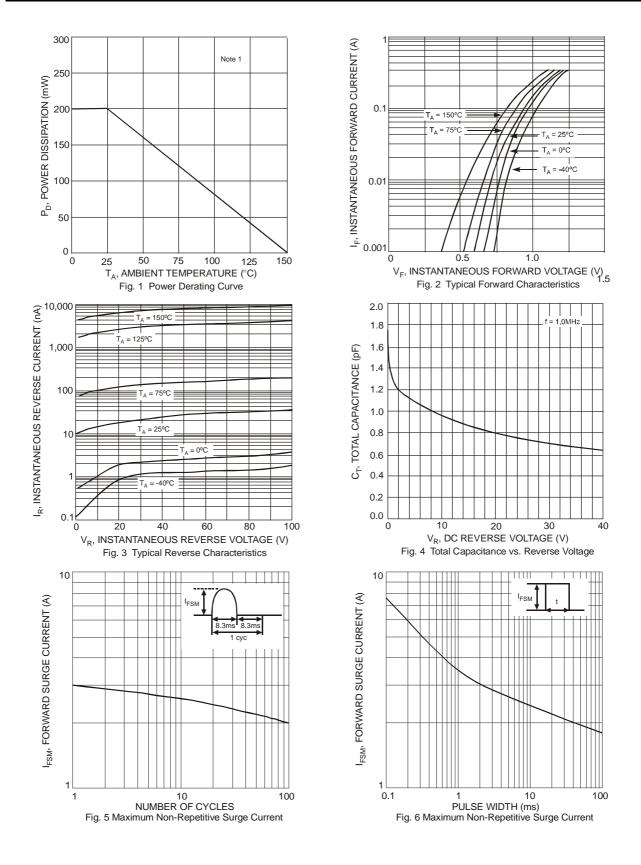
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	100	V
Reverse Voltage	V <sub>R</sub>	V <sub>R</sub> 75	
Average Rectified Forward Current	I <sub>F(AV)</sub>	I <sub>F(AV)</sub> 150	
Surge Forward Current (t < 1 s, T <sub>j</sub> = 25 °C)	I <sub>FSM</sub>	350	mA
Power Dissipation	P <sub>tot</sub>	200	mW
Thermal Resistance from Junction to Ambient Air	$R_{ heta JA}$	625	°C/W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 150	°C

### Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at $I_F$ = 1 mA at $I_F$ = 10 mA at $I_F$ = 50 mA at $I_F$ = 150 mA	V <sub>F</sub>	1 1 1 1	0.715 0.855 1 1.25	>
Peak Reverse Current at $V_R$ = 75 V at $V_R$ = 20 V at $V_R$ = 75 V, $T_J$ = 150 °C at $V_R$ = 25 V, $T_J$ = 150 °C	I <sub>R</sub>	- - -	1 25 50 30	μΑ nA μΑ μΑ
Total Capacitance at $V_R = 0 V$ , $f = 1 MHz$	C <sub>T</sub>	-	2	pF
Reverse Recovery Time at $I_{rr}$ = 0.1 X $I_R$ , $I_F$ = $I_R$ = 10 mA, $R_L$ = 100 $\Omega$	t <sub>rr</sub>	-	4	ns



#### **Typical Characteristics**

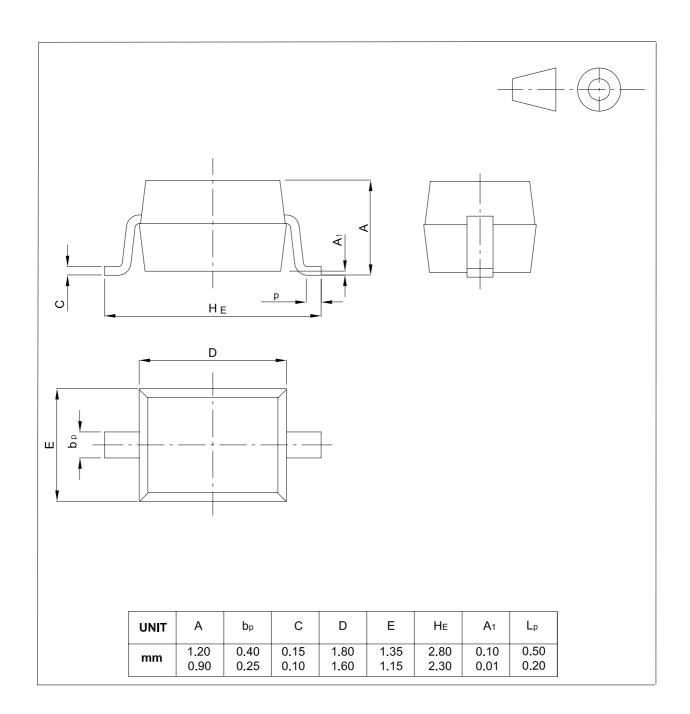




# PACKAGE OUTLINE

#### Plastic surface mounted package; 2 leads

SOD-323



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