# 1N4148WS   Silicon Epitaxial Planar Switching Diode

Features

- SOD-323 package
- Fast switching
- These diodes are also available in other case style including the DO-35 case with the type designation 1N4148, the MiniMELF case with the type designation LL4148 and the MicroMELF case with the type designation MCL4148.

MARKING: T4

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

T4

Top View
Marking Code: "**T4** "
Simplified outline SOD-323 and symbol
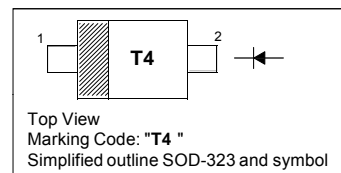
Absolute Maximum Ratings (T_a = 25 $^{\circ}$C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V_{RM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	150	mA
Surge Forward Current (t < 1 s, T_j = 25 $^{\circ}$C)	I_{FSM}	350	mA
Power Dissipation	P_{tot}	200	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	625	$^{\circ}$C/W
Junction Temperature	T_j	150	$^{\circ}$C
Storage Temperature Range	T_{stg}	- 65 to + 150	$^{\circ}$C

Characteristics at T_a = 25 $^{\circ}$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_F	- - - -	0.715 0.855 1 1.25	V
Peak Reverse Current at V_R = 75 V at V_R = 20 V at V_R = 75 V, T_J = 150 $^{\circ}$C at V_R = 25 V, T_J = 150 $^{\circ}$C	I_R	- - - -	1 25 50 30	µA nA µA µA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_T	-	2	pF
Reverse Recovery Time at I_{rr} = 0.1 X I_R, I_F = I_R = 10 mA, R_L = 100 Ω	t_{rr}	-	4	ns

Forward characteristics

I_F (mA) vs V_F (V)

Tj=100 ℃ Tj=25 ℃
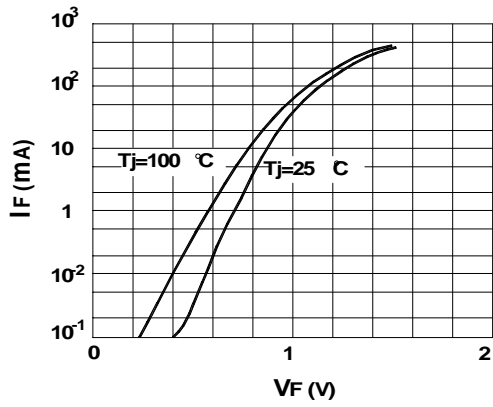
Dynamic forward resistance vs. forward current

r_F (Ω) vs I_F (mA)

Tj=25 ℃
f=1kHz
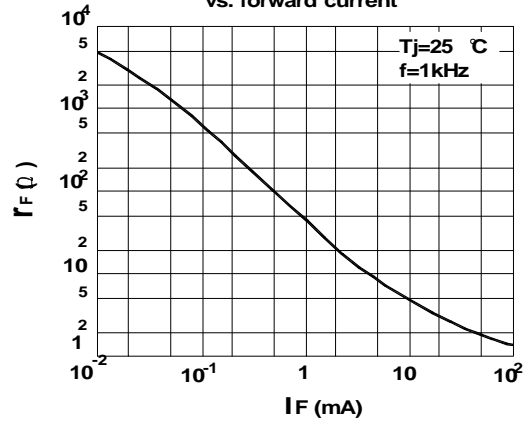
Reverse capacitance vs. reverse voltage

$\dfrac{C_{tot}(V_R)}{C_{tot}(0\,V)}$ vs V_R (V)

Tj=25 ℃
f=1MHz
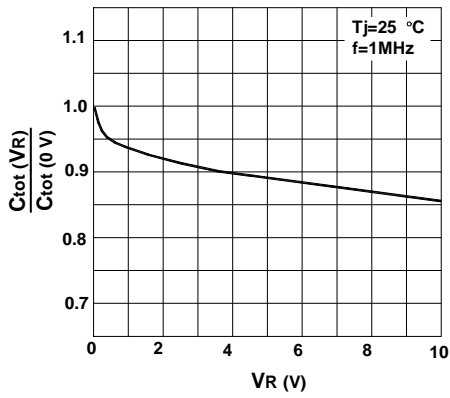
Amissible repetitive peak forward current vs. pulse duration

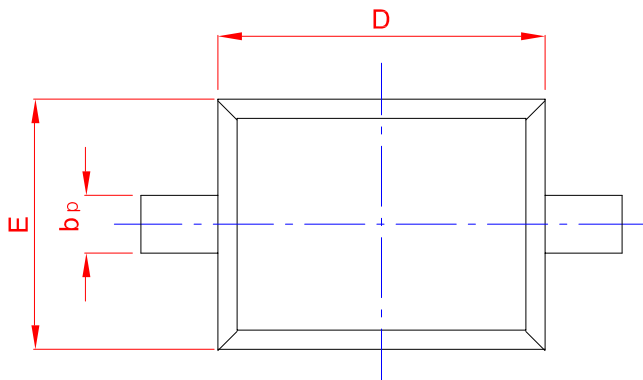I_{FRM} (A) vs t_P (s)

V=0
0.1
0.2
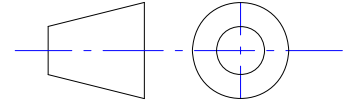0.5
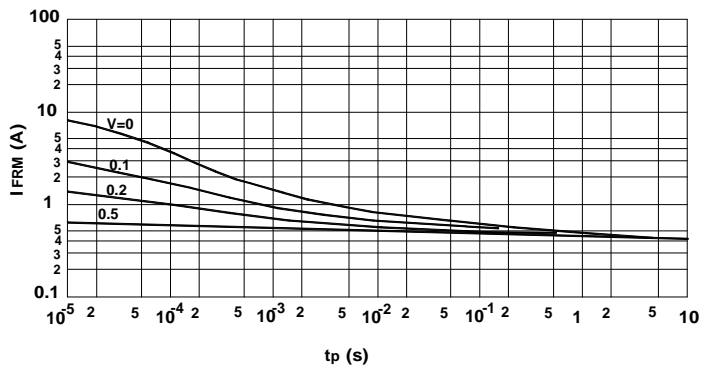
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads   **SOD-323**
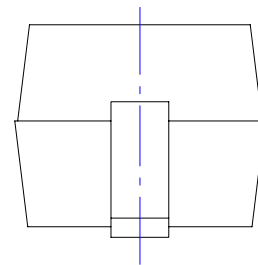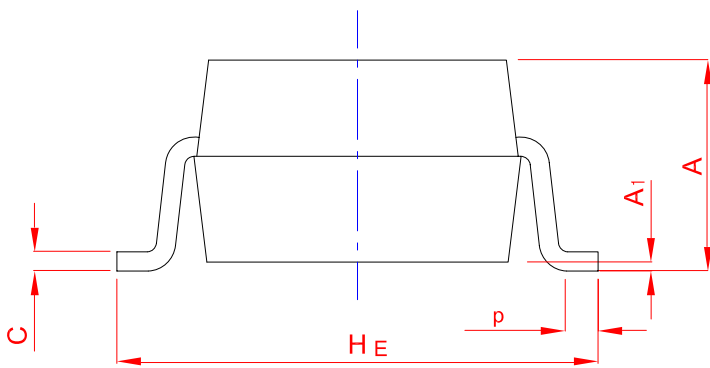
UNIT	A	b_p	C	D	E	H_E	A_1	L_p
mm	1.20 0.90	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30	0.10 0.01	0.50 0.20

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