佑风电子
YFSEMI ELECTRON

1N4148WS

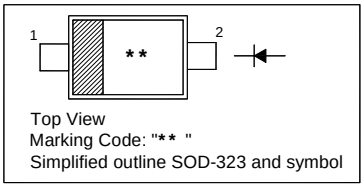
Silicon Epitaxial Planar Switching Diode

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.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "** "
Simplified outline SOD-323 and symbol

Absolute Maximum Ratings (T_a = 25 °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 °C)	I_{FSM}	350	mA
Power Dissipation	P_{tot}	200	mW
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 65 to + 150	°C

Electrical Characteristics (T_a = 25 °C)

Parameter	Symbol	Max.	Unit
Forward Voltage at I_F = 10 mA	V_F	1	V
Reverse Current at V_R = 20 V at V_R = 75 V at V_R = 20 V, T_j = 150 °C	I_R	25 5 50	nA µA µA
Total Capacitance at V_R = 0 V, f = 1 MHz	C_{tot}	4	pF
Reverse Recovery Time at I_F = 10 mA to I_R = 1 mA, V_R = 6 V, R_L = 100 Ω	t_{rr}	4	ns

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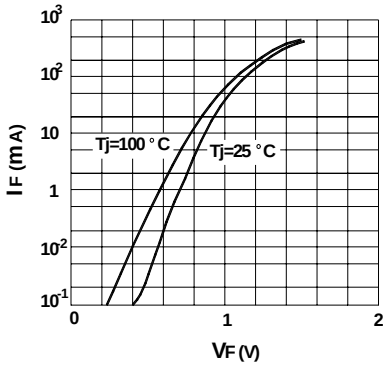
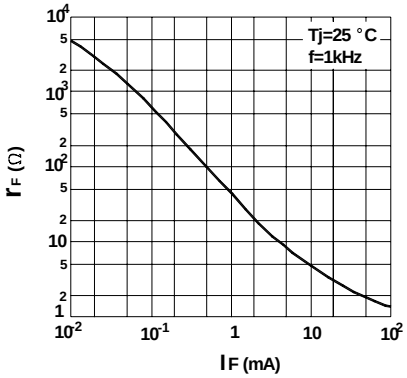
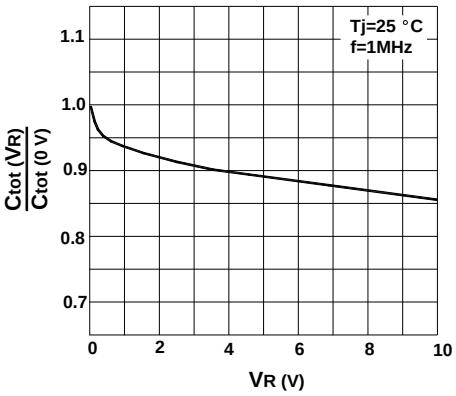
Forward characteristics



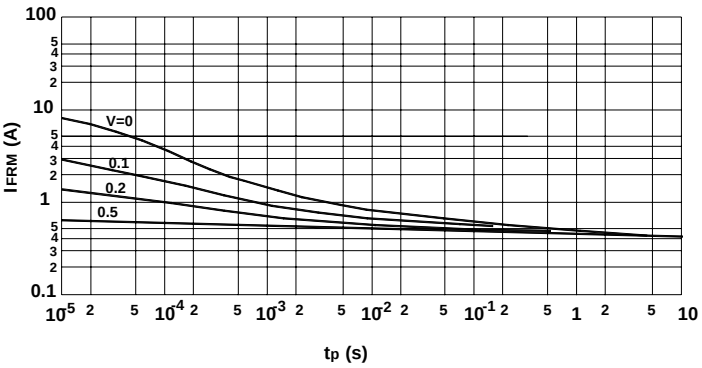
Dynamic forward resistance
vs. forward current



Reverse capacitance vs. reverse voltage



Amissible repetitive peak forward current vs. pulse duration



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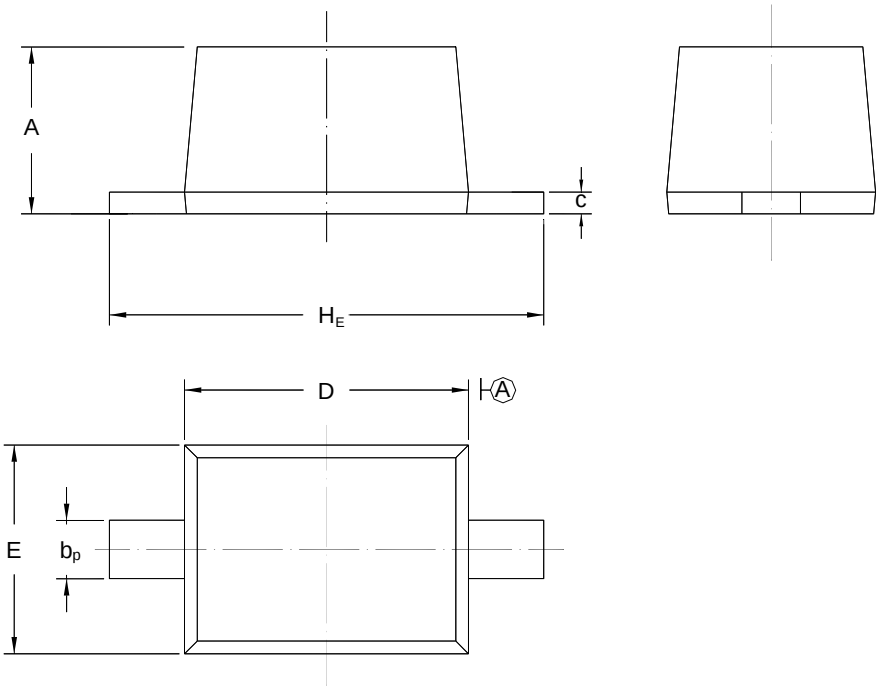
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-323**



UNIT	A	b_p	C	D	E	H_E
mm	1.10 0.80	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30

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