

# Silicon Epitaxial Planar Small Signal Diode

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## Description

These diodes are also available in other case styles including the DO-35 case with the type designation IN4148, the MiniMELF case with the type designation LL4148 and the MicroMELF case with the type designation MCL4148.

## Features

- SOD 323 package
- Fast switching
- Marking code: W2

## Absolute Maximum Ratings (TA = 25°C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	V <sub>RM</sub>	100	V
Reverse Voltage	V <sub>R</sub>	75	V
Average Rectified Current Half Wave Rectification With Resistive Load f ≥ 50Hz	I <sub>F(AV)</sub>	150	mA
Surge Forward Current t < 1s T <sub>J</sub> = 25°C	I <sub>FSM</sub>	350	mA
Power Dissipation	P <sub>tot</sub>	200	mW
Thermal Resistance Junction to Ambient Air	R <sub>θJA</sub>	650	°C/W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-65 to +150	°C

## Electrical Characteristics (TA = 25°C)

Parameter	Symbol	Test Conditions	Min.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 10mA	-	1	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 20V	-	25	nA
		V <sub>R</sub> = 75V	-	5	μA
		V <sub>R</sub> = 20V, T <sub>J</sub> = 150°C	-	50	μA
Capacitance	C <sub>tot</sub>	V <sub>F</sub> = V <sub>R</sub> = 0V	-	4	pF
Reverse Recovery Time	t <sub>rr</sub>	V <sub>R</sub> = 6V, I <sub>F</sub> = 10mA, R <sub>L</sub> = 100Ω, I <sub>R</sub> = 1mA	-	4	ns
			-	-	-

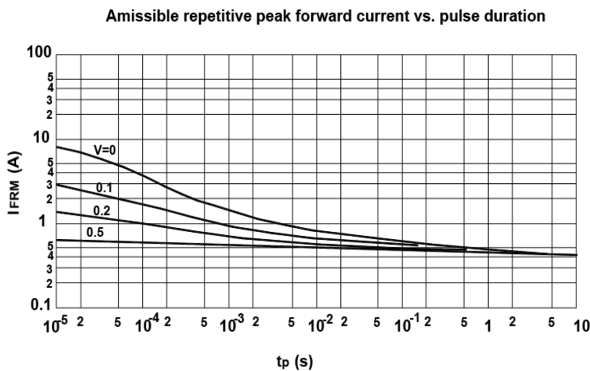
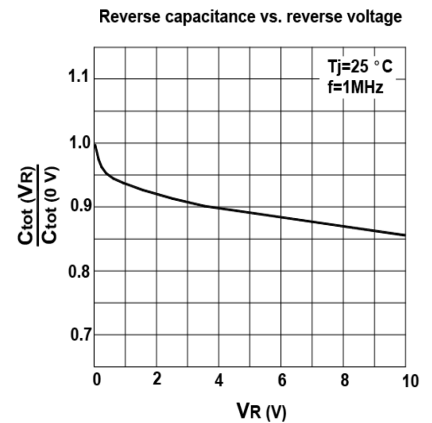
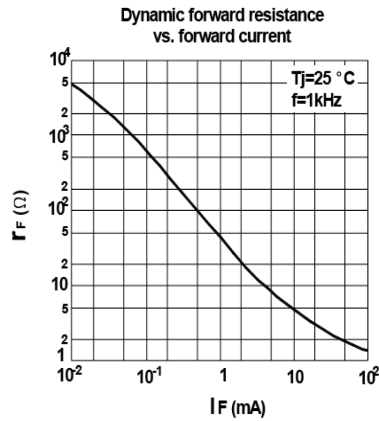
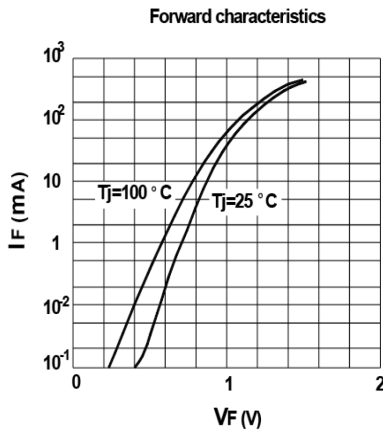
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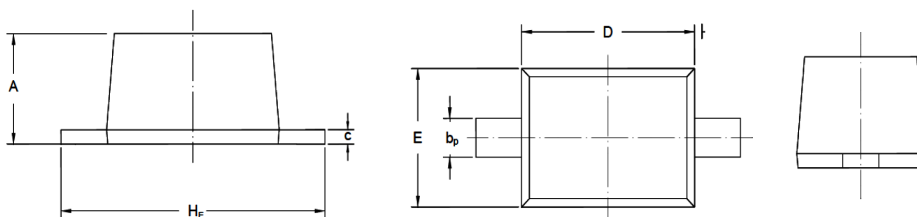
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## Rating and Characteristic Curves



## Dimensions

SOD-323



Unit	A	bp	C	D	E	HE
mm	1.1 (0.8)	0.4 (0.25)	0.15 (0.1)	1.8 (1.6)	1.35 (1.15)	2.8 (2.3)

## Part Number Table

Description	Part Number
Silicon Epitaxial Planar Small Signal Diode	1N4148WS

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