## **Small Signal Diode**





### 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 123 package
- · Fast switching
- Reverse voltage: 100 Volts
- Forward current: 150mA

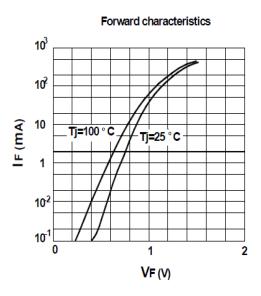
### Absolute Maximum Ratings (TA = 25°C)

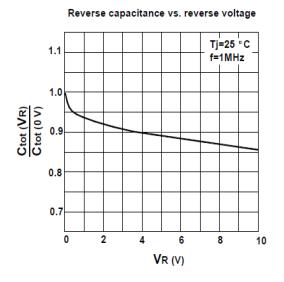
Parameter	Symbol	Value	Unit
Peak Reverse Voltage	Vrm	100	
Reverse Voltage	Vr	75	V
Reverse Breakdown Voltage @IR=1µA	V(BR)R	75	
Average Rectified Forward Current	IF(AV)	150	mA
Non-repetitive Peak Forward Surge Current @t=1s @t=1ms @t=1µs	IFSM	0.5 1 4	А
Power Dissipation	Ptot	400	mW
Thermal Resistance from Junction to Ambient Air	Reja	312	°C/W
Junction Temperature	TJ	-55 to +150	℃
Storage Temperature	Tstg	-55 to +150	ι, C
Max. Forward Voltage @ IF = 1mA @ IF = 10mA @ IF = 50 mA @ IF = 150 mA	Vf	0.715 0.855 1 1.25	V
Max. Peak Reverse Current @VR = 75V @VR = 20V @VR = 75V, TJ = 150°C @VR = 25V, TJ = 150°C	IR	1 25 50 30	μA nA μA μA
Total Capacitance @VR = 0V, f = 1 MHz	Ст	2	pF
Reverse Recovery Time @Irr = 0.1 X IR, IF = IR = 10mA, RL = $100\Omega$	trr	4	ns

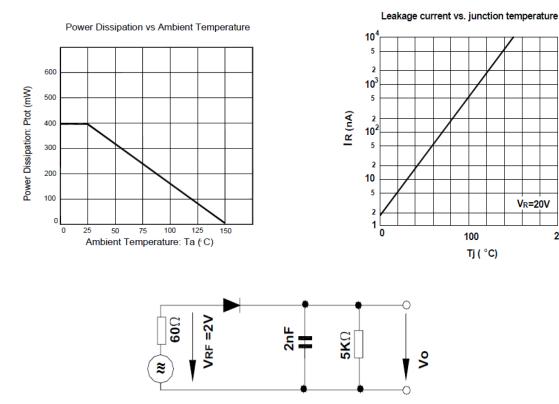
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#### **Rating and Characteristic Curves**







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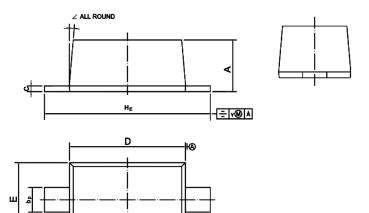


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# **Small Signal Diode**

#### Diagram

SOD-123



Unit	A	bp	С	D	E	HE	v	∠
mm	1.15 1.05	0.6 0.5	0.135 0.127	2.7 2.6	1.65 1.55	3.85 3.55	0.2	5°

#### Part Number Table

	Description	Part Number
Dimensions : Millimetres	Small Signal Diode, Single, 100V, 150mA, 1V, 4ns, 2A	1N4148W

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