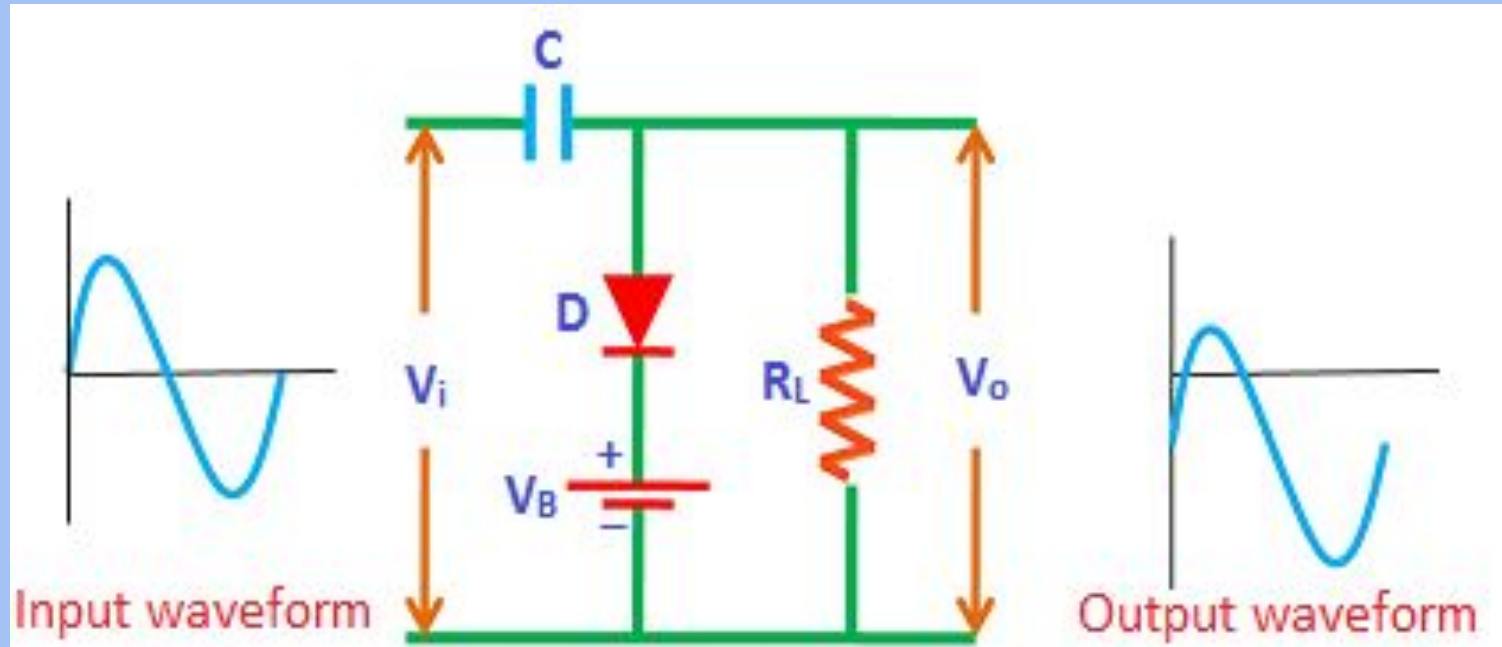


# **Negative Clamper with Positive Bias**

**Elementrix Classes**

# Negative Clamper with Positive Bias

- ❑ A negative clamper with positive bias refers to a clamping circuit that shifts the entire AC waveform of an input signal in the negative direction and introduces an additional positive DC bias. This positive bias is achieved by adding an external positive DC voltage source.



**Negative clamper with positive bias**

## ❖ **During positive half cycle:**

During the positive half cycle, the battery voltage reverse biases the diode when the input supply voltage is less than the battery voltage. When the input supply voltage becomes greater than the battery voltage, the diode is forward biased by the input supply voltage and hence allows electric current through it. This current will flow to the capacitor and charges it.

## ❖ **During negative half cycle:**

During the negative half cycle, the diode is reverse biased by both input supply voltage and battery voltage. As a result, the signal appears at the output.

पढ़िए और पढ़ाइये

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