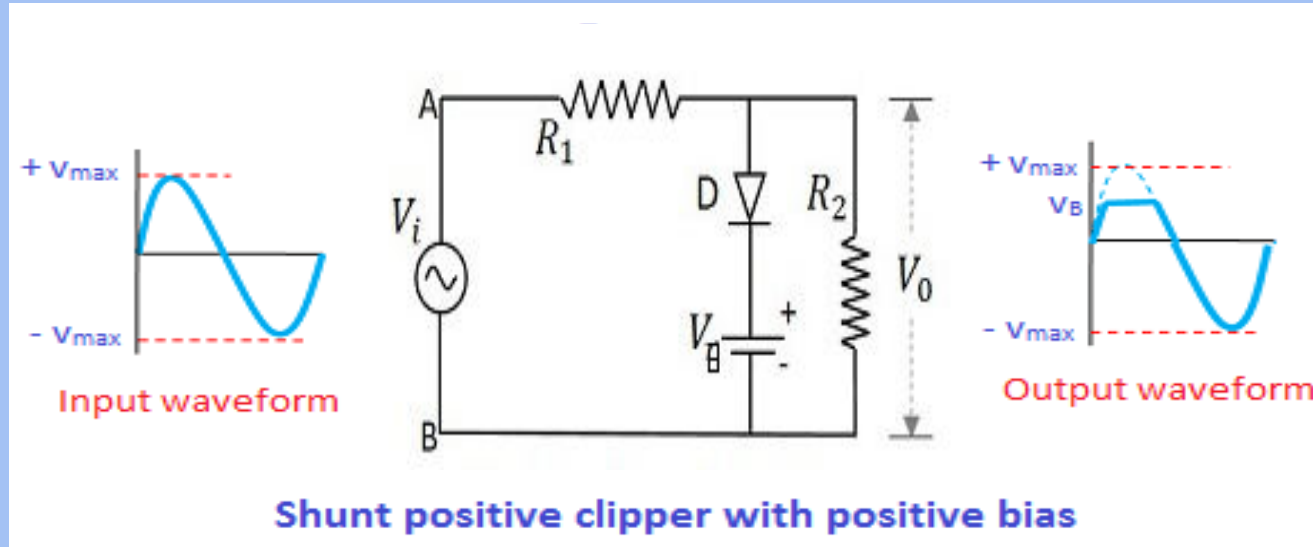


Shunt Positive Clipper with Positive Bias

Elementrix Classes

Shunt Positive Clipper with Positive Bias



- **During the positive half cycle**, the diode is forward biased by the input supply voltage V_i and reverse biased by the battery voltage V_B .

- However, initially, the input supply voltage V_i is less than the battery voltage V_B . Hence, the battery voltage V_B makes the diode to be reverse biased. Therefore, the signal appears at the output. However, when the input supply voltage V_i becomes greater than the battery voltage V_B , the diode D is forward biased by the input supply voltage V_i . As a result, no signal appears at the output.

- **During the negative half cycle**, the diode is reverse biased by both input supply voltage and battery voltage. So it doesn't matter whether the input supply voltage is greater or lesser than the battery voltage, the diode always remains reverse biased. As a result, a complete negative half cycle appears at the output.

पढ़िए और पढ़ाइये

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