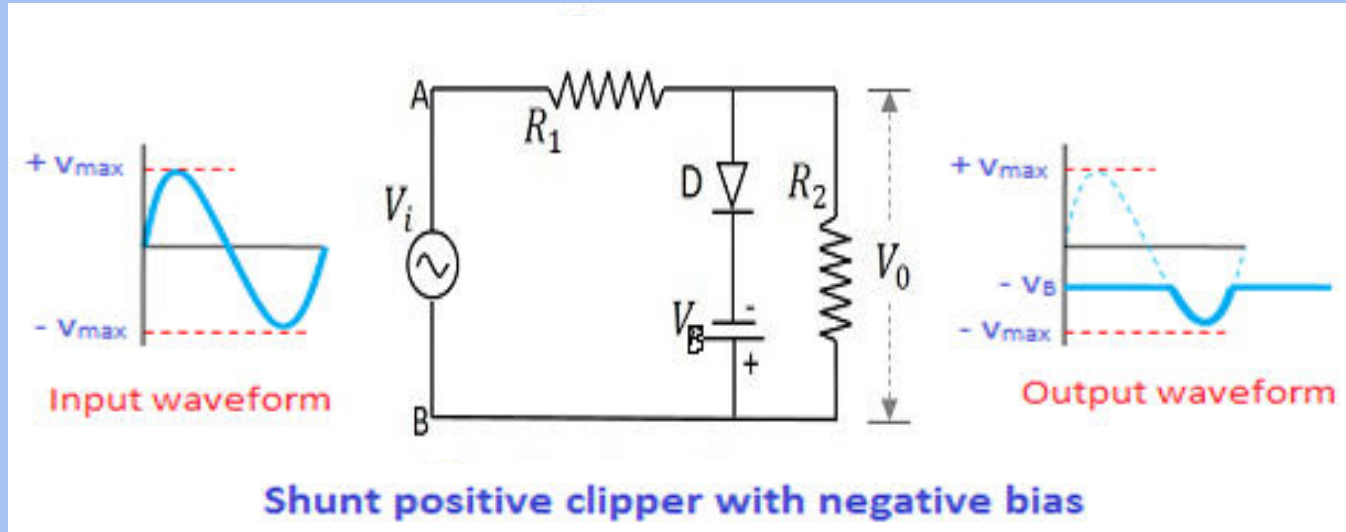


Shunt Positive Clipper with Negative Bias

Elementrix Classes

Shunt Positive Clipper with Negative Bias



- **During the positive half cycle**, the diode is forward biased by both input supply voltage V_i and battery voltage V_B . Therefore, no signal appears at the output during the positive half cycle.

- ❑ **During the negative half cycle**, the diode is reverse biased by the input supply voltage and forward biased by the battery voltage. However, initially, the input supply voltage V_i is less than the battery voltage V_B . So the battery voltage makes the diode to be forward biased. As a result, no signal appears at the output. However, when the input supply voltage V_i becomes greater than the battery voltage V_B , the diode is reverse biased by the input supply voltage V_i . As a result, the signal appears at the output.

पढ़िए और पढ़ाइये

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