



American International University – Bangladesh (AIUB)
Department of Electrical and Electronic Engineering
EEE 2104: Electronic Devices Laboratory

Title: Study of Diode Clipping and Clamping Circuits.

Abstract:

In electronics, clippers are networks that employ diodes to clip away a portion of an input signal without distorting the remaining part of the applied waveform, whereas, a clamper is a network that shifts a waveform to a different dc level without changing the appearance of the applied signal.

Introduction:

The objectives of this experiment are to study:

- Clipper circuits
- Clamper circuits

Theoretical Background:

Clippers:

Clipper circuits clip off portions of signal voltages above or below certain limits, i.e. the circuits limit the range of the output signal. At least two components: a diode and a resistor are employed for the formation of clippers. In some cases, for fixing the clipping level, a DC battery is also used. There are two general categories of clippers: series clipper and parallel clipper. The series configuration is defined as one where the diode is in series with the load, whereas the parallel variety has the diode in a branch parallel to the load.

Series Positive Clipper: It actually removes the positive half cycles of the input voltage. Figure 1 shows a positive series clipper. When the input is positive, the diode is in reverse biased condition (output is zero) and when the input is negative, the diode is in forward biased condition and shows the input of negative half cycle at the load.

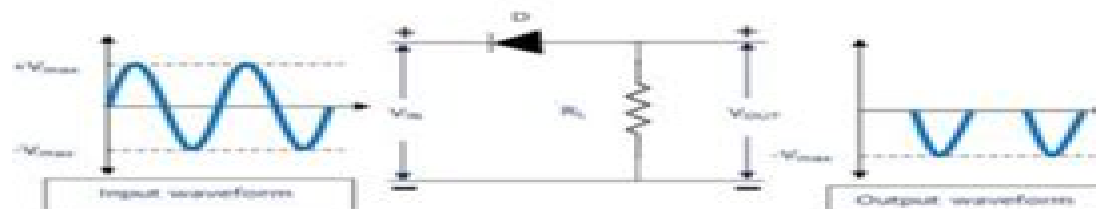


Figure 1: Series Positive Clipper

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Hongru Du

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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