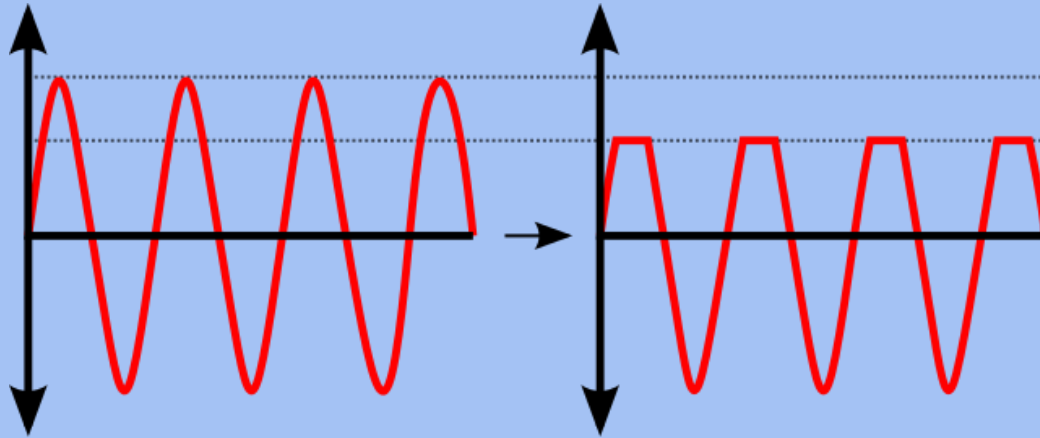


Introduction to Clipper Circuit

Elementrix Classes

Clipper Circuit

A clipper circuit, like its namesake, "clips" off portions of an input signal waveform, essentially altering its shape. Imagine taking a pair of scissors to trim the peaks of a mountain range – that's what a clipper does to a signal!



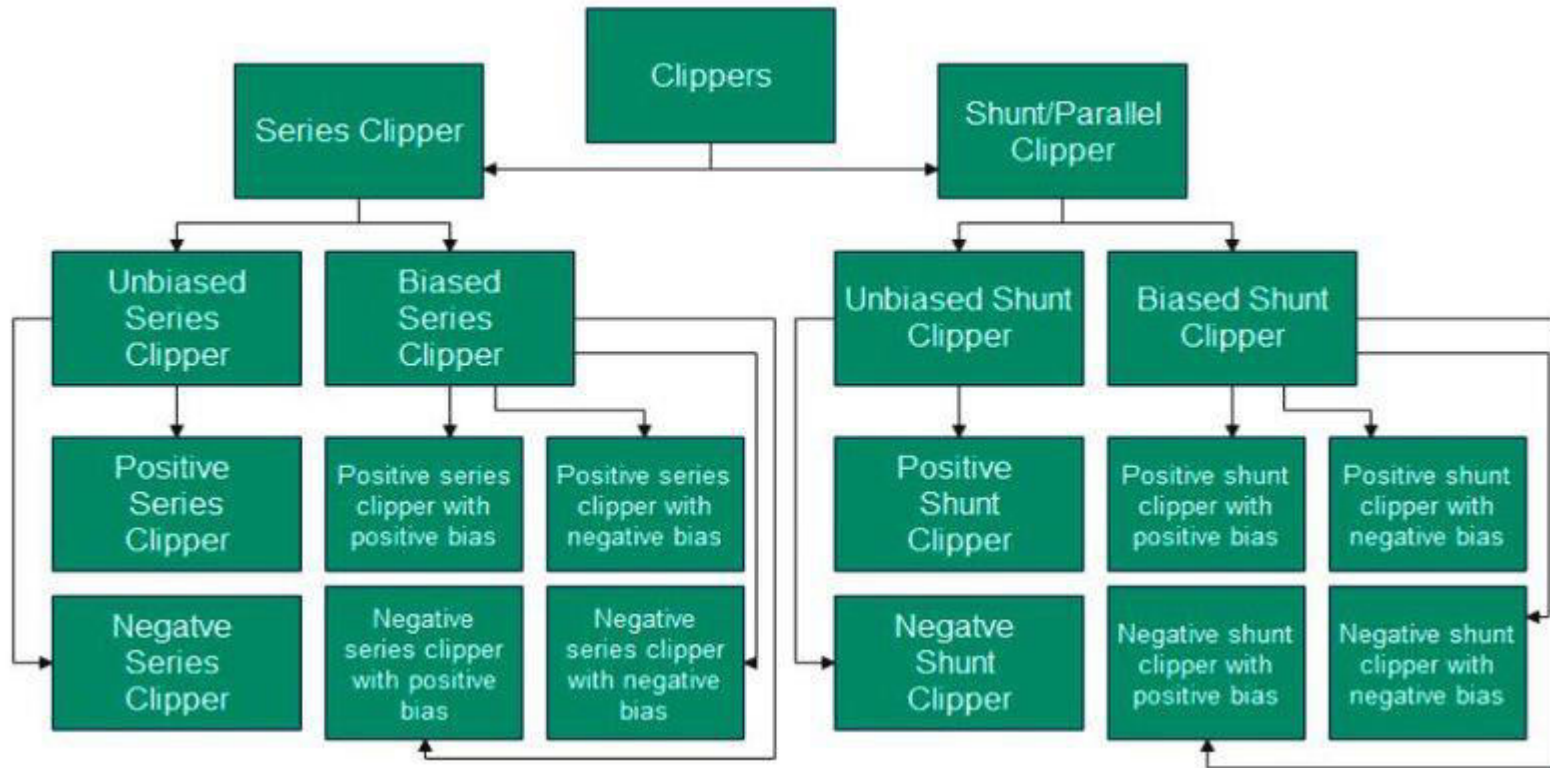
Function of Clipper Circuit:

Clippers utilize the non-linear behavior of diodes, specifically their ability to conduct current only when forward-biased. By strategically placing diodes and resistors in a circuit, we can control which parts of the input signal get "clipped" or removed. This allows us to achieve various effects, such as:

- ❑ **Limiting the amplitude:** We can set a maximum or minimum voltage level that the signal cannot exceed, preventing overloading of subsequent circuits.

- ❑ **Squaring a waveform:** By clipping both positive and negative peaks, we can transform a sinusoidal wave into a more square-like shape.
- ❑ **Pulse shaping:** We can create specific pulse shapes like triangles or trapezoids by selectively clipping different portions of the waveform.
- ❑ **Removing noise or interference:** We can clip off unwanted spikes or distortions on the signal, resulting in a cleaner output.

Types of Clipper Circuit:



पढ़िए और पढ़ाइये

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