

Invention relates to electronic technology and can be used for digital-analog processing of a bipolar voltage using a digital-to-analog converter (DAC) with a unipolar reference voltage. The method involves generating a reference voltage of the appropriate polarity, which is applied to the DAC's reference input, and generating a digital code that is fed to the DAC's digital interface. The magnitude of the output voltage is varied according to the changing digital code. According to the invention, the unipolar reference voltage is obtained by full-wave rectification of the input bipolar voltage and converting it into a sequence of pulses of the required polarity. By monitoring the polarity of the input bipolar voltage, the polarity of the corresponding DAC output voltage pulses is inverted using a polarity inverter, resulting in a bipolar processed signal that is either in-phase or out-of-phase with the output voltage. The technical result of the invention is the ability to process a bipolar voltage using a DAC with a unipolar reference voltage.