

ABSTRACT

Configurations for an LED driver are disclosed. The proposed LED driver receives an input voltage, drives an LED and includes a compensation capacitor set including a first and a second capacitors connected to each other in series, wherein the first capacitor is electrically connected to the LED, the second capacitor is grounded, the compensation capacitor set provides a compensation voltage to the LED such that the LED is conductible when an instantaneous voltage value of the input voltage is lower than an LED conduction voltage.