









**Fig.6.** The experimental waveforms of the key parts of the proposed converter at a switching frequency scale.

To validate the feasibility of the proposed LED converter, a prototype converter was constructed and tested. Figures 4~6 show the experimental waveforms of the key parts of the proposed driver. These show the good performance of the proposed driver.

#### 4 Concluding remarks

In this paper, a single-switch LED driver with the function of PFC has been proposed, and the operational principle and the experimental result have been described, briefly, and shown to verify the feasibility of the proposed driver, respectively. The proposed driver has good performance as an LED driver.

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