

Expandable WLED Backlight Driver

Specification Rev. 1.2

FEATURES

- Compatible with AC/DC or DC/DC Power Stage
- Current Drive of LED String Up to 240mA⁽¹⁾
- Integrated 70V MOSFET
- Expandable for Driving Different Size of Panels
- PWM Dimming
- Programmable Sinking Current
- SLP (Short LED Lamp Protection)
- OLP (Open LED Lamp Protection)
- OTP (Over Temperature Protection)
- Support Local Dimming Control
- Enable Input (PF7700A Only)
- FLAG Signal for Status Indicator (PF7703A Only)

APPLICATIONS

- LED Backlight Driver for LCD TV/Monitor

GENERAL DESCRIPTION

The PF7700A and PF7703A are the 2nd generation products of PF7700 and PF7703. Compared with PF7700 and PF7703, the voltage rating of integrated current sources is improved to 70V and the GM circuit is also modified to minimize the required value of external compensation capacitor.

By using PF7700A and PF7703A, PCB layout and the protection functions, including open LED lamp protection, short LED lamp protection, and over temperature protection, are the same as what was used for PF7700 and PF7703.

Note (1): PF7700A/PF7703A can drive more than 240mA by adjusting the resistor of ISET pin. However, the limitation mainly lies in the power dissipation of the PCB layout. In such application, special attention should be paid to the thermal design.

TYPICAL APPLICATION (PF7700A)

