

WLED Backlight Driver

Preliminary Specification Rev. P3

FEATURES

- Integrated DC/DC Boost Controller
- Support Up to 4 LED Strings
- Integrated Current Matching MOSFETs
- Expandable to Drive More than 4 LED Strings
- PWM Dimming & Enable Input
- Programmable Output Current
- Power Good Signal Output (FLAG)
- Boost Over Current Protection
- Short LED Lamp Protection
- Open LED Lamp Protection
- Over Temperature Protection

APPLICATIONS

- LED Backlight Driver for LCD TV/Monitor

GENERAL DESCRIPTION

The PF7804 is a 70V, 4-channel LED driver which integrates current-programmable power MOSFETs and a boost controller. The adjustable switching frequency of the boost controller offers the flexibility for the design trade-off between EMI performance and efficiency. The LED is adjustable from 20mA to 160mA by ISET resistor.

Furthermore, the embedded boost over current protection, open LED lamp protection, short LED lamp protection, and over temperature protection provide the users a highly integration solution as well as to reduce the part counts and required PCB space. SOP-16 and DIP-16 are offered for the PF7804.

TYPICAL APPLICATION

