

Single Channel WLED Driver with Integrated Dimming MOSFET

Preliminary Specification P4

FEATURES

- Wide Input Range: 9V to 30V
- Current Mode Control
- 300mV Feedback Reference
- Short LED Protection
- Over Current Protection
- Over Temperature Protection
- Output Over Voltage Protection
- PWM Dimming Input
- 1000mA/-1500mA Output Driving Capability

APPLICATIONS

- LED Backlight

GENERAL DESCRIPTION

The PF7708B is a wide-input voltage range, single-channel, boost WLED controller which can be operated from 9V to 30V. By using PF7708B, the low total BOM cost WLED driver can be achieved. PF7708B integrated the current mode PWM controller with a 1000mA/-1500mA output MOSFET driver and a Dimming Power MOSFET with low $R_{ds(on)}$. In addition, all the required protections for WLED backlight such as short LED protection, over temperature protection and output over output voltage protection are implemented in a SOP-8 package to minimize the PCB size as well as the component counts.

TYPICAL APPLICATION

