

Single Channel WLED Driver with PWM Dimming Control

Specification Rev. 1.1

FEATURES

- Wide Input Range: 9V to 27V
- Current Mode Control
- 240mV Feedback Reference
- Short LED-String Protection
- Open LED Protection
- Over Current Protection
- Over Temperature Protection
- Output Over Voltage Protection
- Input Over Voltage Protection
- PWM Dimming Input
- 180KHz Switching Frequency

APPLICATIONS

- LED Backlight

GENERAL DESCRIPTION

As the direct-type WLED backlight (DLED) becomes the trend for low cost TV, the PF7903B driver IC is targeted for such applications. PF7903B is a wide input voltage range, single channel, boost WLED controller which can be operated from 9V to 27V.

By using PF7903B, the low total BOM cost WLED driver can be achieved easily. PF7903B integrated the current mode PWM controller with a boost MOSFET driver, over current protection, over temperature protection, over output voltage protection, and input over voltage protection in a SOP-8 package to minimize the PCB size as well as the component counts.

TYPICAL APPLICATION

