

# Single Channel WLED Driver with Integrated Dimming MOSFET

## FEATURES

- Wide Input Range: 9V to 35V
- Current Mode Control
- Both PWM Dimming & Analog Dimming Mode Supported
- Enable Input
- Short LED Protection
- Diode/Inductor Short Protection
- Over Current Protection
- Over Temperature Protection
- Output Over Voltage Protection
- Inside 70V Dimming MOS
- 1000mA/-1500mA Output Driving Capability

## APPLICATIONS

- LED Backlight of TV or monitors

## GENERAL DESCRIPTION

The PF7989 is a wide-input voltage range, single-channel, boost WLED controller which can be operated from 9V to 35V. By using PF7989, the low total BOM cost WLED driver can be achieved. PF7989 integrated the current mode PWM controller with a 1000mA/-1500mA output MOSFET driver and a 70V Dimming Power MOSFET with low Rds(on). In addition, all the required protections for WLED backlight such as short LED protection, boost diode/inductor short protection, over temperature protection and output over output voltage protection are implemented in a SOP-10 package to minimize the PCB size as well as the component counts.

## TYPICAL APPLICATION

