

## 9V to 27V Input Current Mode Boost Controller

Specification Rev. 1.4

### FEATURES

- Wide Input Range: 9V to 27V
- Adjustable Switching Frequency Setting
- Current Mode Control
- 300mV Current Sensing Reference
- Over Current Protection
- Over Temperature Protection
- Output Over Voltage Protection
- Input Over Voltage Protection
- PWM Dimming Input

### APPLICATIONS

- Front-End Stage of LED Backlight
- LED Lighting

### GENERAL DESCRIPTION

The PF7900 is a wide-input voltage boost controller which can be operated from 9V to 27V. The special dimming input helps to synchronize this device with multi-channel current matching ICs or MOSFETs for LED applications such as LED backlight or LED lighting. PF7900 integrated the current mode PWM controller with a high driving capability MOSFET driver, over current protection, and input/output over voltage protection in a SOP-8 package to minimize the PCB size as well as the component counts. The adjustable frequency setting helps users to select the optimized operation frequency.

### TYPICAL APPLICATION

