## FP7186

LED Driver with Average-Mode Constant Current Control

#### **General Description**

LING NOLOGY

The FP7186 is an average current mode control LED driver IC operating in a constant off-time mode. FP7186 does not produce a peak-to-average error, and therefore greatly improves accuracy, line and load regulation of the LED current without any need for loop compensation or high-side current sensing. The output LED current accuracy is  $\pm 2\%$ .

The FP7186 can be powered from an 9.0 - 12V supply. A PWM dimming input is provided that accepts an external control TTL compatible signal. The output current can be programmed by an internal 250mV reference.

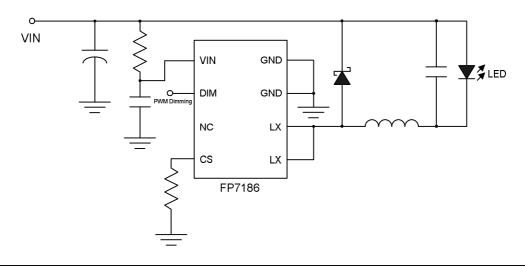
#### **Features**

- Fast average current control
- PWM dimming capability
- > Output short circuit protection with skip mode
- > Requires few external components for operation
- Internal 100V N-MOSFET

### **Applications**

- > DC/DC LED driver applications
- Back lighting of flat panel displays
- > General purpose constant current source
- Signage and decorative LED lighting
- > Chargers

# **Typical Application Circuit**



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