

DESCRIPTION

The PT6911 is ideally suited for AC/DC buck LED driver with external MOSFET. Since the PT6911 includes a 12V~450V linear regulator which allows it to work from a wide range of input voltages without the need for an external low voltage supply. Besides, the PT6911 operates in hysteretic control mode; the controller achieves good output current regulation without the need for any loop compensation. The PT6911 delivers constant current within high accuracy to a wide variety and number of series connected LEDs.

The PT6911 includes PWM dimming and linear dimming functions. The PWM dimming input can accept an external control signal with a duty cycle of 0~100% and a frequency between 100Hz and a few KHz. Output current to LED string can be programmed to any value between 0 to its maximum value by PWM dimming. Also, a 0.1~1.2V linear dimming input can be used for linear dimming of the LED current.

FEATURES

- Wide Input Voltage: 12V ~ 450V DC
- Hysteretic controller
- $\pm 5\%$ Output Current Accuracy
- Low Stand-by Power Dissipation
- Soft Start
- PWM Low-frequency Dimming and Linear Dimming
- Thermal Shutdown 160°C Typical
- SOP-8 Package

APPLICATIONS

- AC/DC LED Driver
- LED Bulbs
- Constant-Current driver

BLOCK DIAGRAM

