

Parameters Subject to Change Without Notice

DESCRIPTION

The JW[®]1602 is a multi-topology LED controller with active power factor correction. It is especially designed for LED lighting system. The JW1602 controls the LED current accurately without using an opto-coupler, which can significantly simplify the design of LED lighting system.

The JW1602 achieves high power factor over wide line and load ranges, compared to conventional constant on time control, it also significantly optimized the THD by an improved on time control.

JW1602 integrates an interface for PWM dimming and analog dimming both. The output current can be easily linearly adjusted by an analog signal on ADIM or a PWM signal on DPWM.

The multi-protection function largely enhances the safety and reliability of the system, including over voltage protection, short circuit protection, LED open protection, cycle-by-cycle current limit, VCC UVLO and over-temperature protection.

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FEATURES

- Real current control without secondary feedback circuit
- Multi-topology supported
- High current accuracy of line regulation
- Active power factor correction
- Optimized THD
- Compatible with analog dimming
- Compatible with PWM dimming
- Frequency fold-back for deep dimming Range
- CV mode to off the LED
- Valley turn-on to low switching loss
- Cycle-by-cycle current limit
- LED short protection
- LED open protection
- Over-temperature protection
- 8-Pin SOP package

APPLICATIONS

- Offline LED Driver
- Intelligent dimming of LED driver

TYPICAL APPLICATION

