

FEATURES

- Switch-mode controller for single switch LED driver
- Wide operating voltage range : 8Vdc ~ 450Vdc
- Open-loop peak current mode controller without loop compensation
- Constant frequency or constant off-time mode
- PWM or analog dimming capability
- Few external components required
- SOP-8 Lead-free Package

Applications

- TFT flat panel backlighting
- AC/DC LED lamps
- DC/DC, AC/DC LED drivers
- T5, T8 LED line bars
- MR-16 lamps
- Signage or decorative LED lamps

GENERAL DESCRIPTION

The T8601 is a low cost, simple, high-efficiency off-line LED driver IC. A built-in high voltage regulator enables the T8601 to work from 8Vdc to 450Vdc. The T8601 is operated in an open loop, peak current mode to produce a constant LED current rather than constant voltage.

The T8601 drives an external power MOSFET in either a constant frequency or constant off-time mode. The T8601 features PWM and linear dimming capability. To control LED brightness, the LED current can be controlled by applying a PWM signal with a duty ratio of 0~100% and a frequency up to a few kilohertz, or it can be adjusted linearly to any value between 0 ~ 250mV(typ.) by applying an analog voltage to the LD pin. The T8601 is available in SOP-8 Lead-free package.

PART NUMBER EXAMPLES

PART NO.	PACKAGE
T8601-AD	SOP-8