

PRODUCT OVERVIEW

YX806 is a high-efficiency, high-stability solar candle light control IC. It provides adjustable input current and a realistic candle-flicker effect with very few external components. Only one inductor and one yellow LED are required to create the candle-light effect. No special flicker LED, diode, or capacitor is needed. It is suitable for solar lamps powered by one or two rechargeable cells.

MAIN FUNCTIONS

Automatic light control (using either a photoresistor or the solar panel for light sensing) with boost drive. The output simulates the changing flicker of candlelight. Input current can be adjusted by changing the inductance.

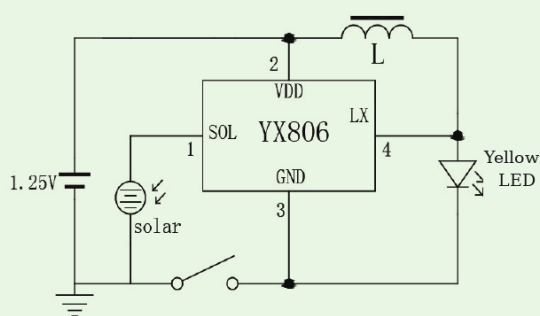
KEY FEATURES

- Over-discharge protection: typ. 0.85 V
- Input voltage: 0.8-1.5 V
- Drive current: 0-50 mA
- Efficiency: $\geq 85\%$
- Drive capability: 1-50 LEDs

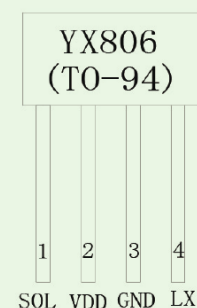
APPLICATIONS

Solar candle lights, solar candle-light strings, gift/decorative candle lights, and similar products.

APPLICATION CIRCUIT



PACKAGE & PIN DEFINITIONS



Note: Use a 0307 or 0410 package for the inductor. Adjusting the inductance changes the operating current.

Notice:

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