晶丰明源半导体

BP2606C

BOOST PFC CC/CV LED Driver

Description

BP2606C is a high efficiency, HPF、low THD LED driver. The device operates in critical conduction mode and suitable for Boost topology LED lighting。

BP2606C utilizes MOSFET driving technique and current sensing method. The operating current of the IC is very low. With very few external components count, it can achieve excellent constant current performance, so the system cost and size are greatly reduced.

BP2606C offers rich protection functions to improve the system reliability, including LED open circuit protection, MOSFET over current limit, LED over current protection, thermal regulation function.

BP2606C is available in SOP-8 package。

Features

- Critical Conduction Mode Operation
- Ultra Low Operating Current
- ±5% LED Output Current Accuracy
- Integrated 500V Power MOSFET
- LED Open Protection
- MOS Over Current Limit
- LED Over Current Protection
- VCC Under Voltage Protection
- Internal Thermal Regulation
- Available in SOP-8 Package

Application

- LED Bulb
- LED Tube
- Other LED Lighting

Typical Application

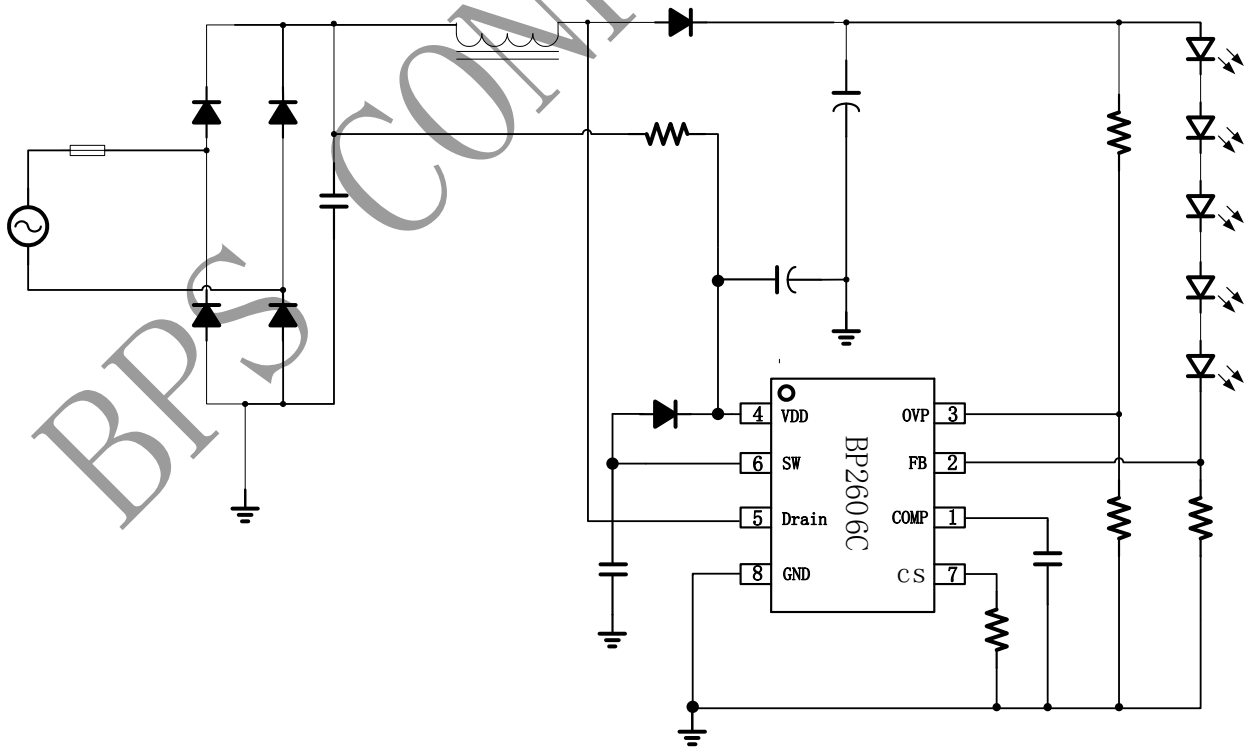

Figure 1. Typical application circuit for BP2606C Boost CC

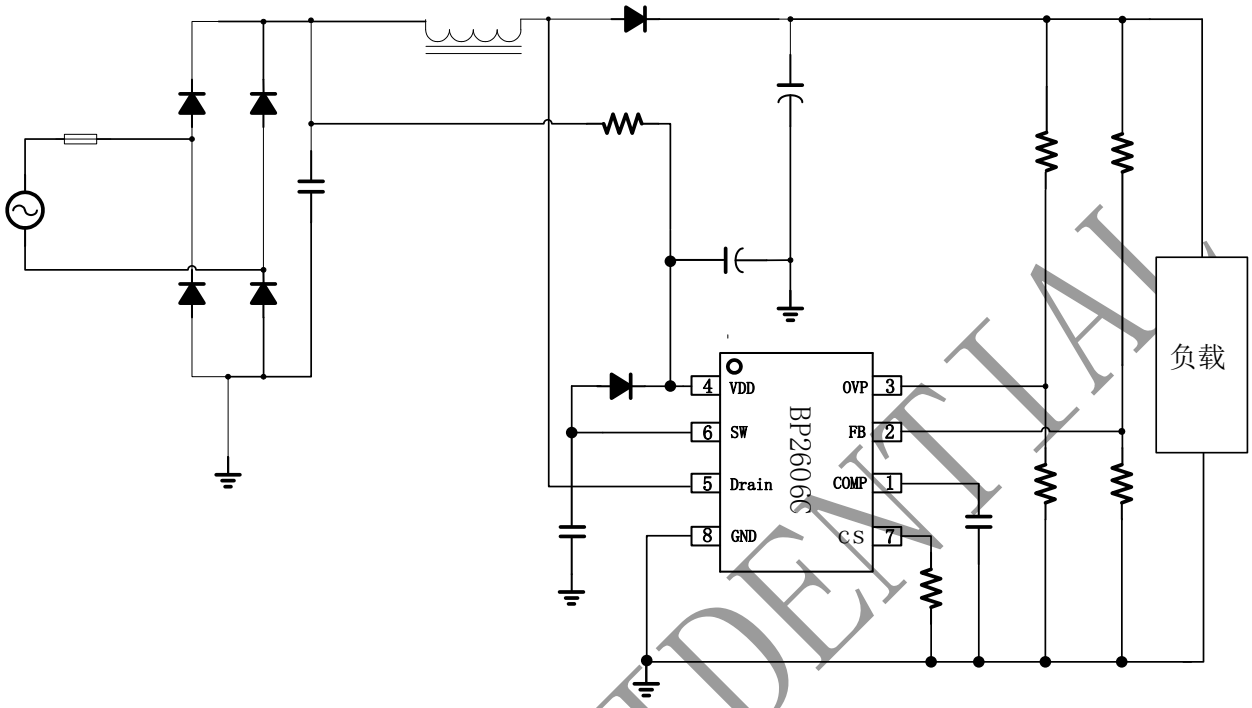

Figure 2. Typical application circuit for BP2606C Boost CV

Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP2606C	SOP8	-40 ℃ to 105 ℃	Tape 4,000 Piece/Reel	BP2606 XXXXXYZ XXXYWWC

Pin configuration and Marking Information

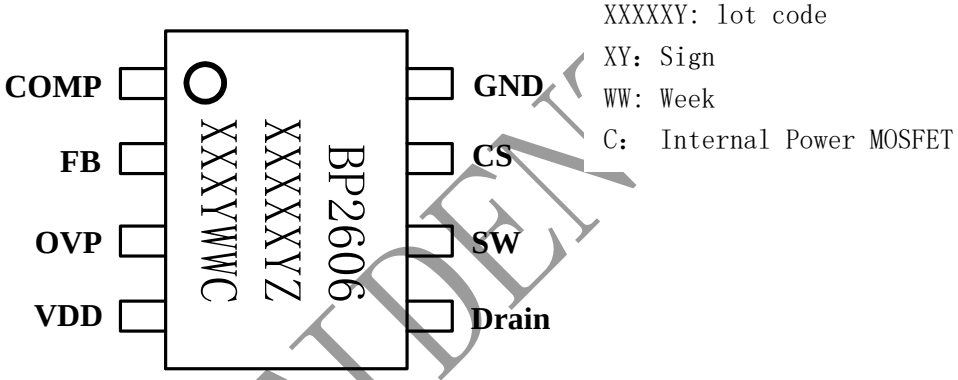

Figure 3. Pin Configuration

Pin Definition

Pin No.	Name	Description
1	COMP	Loop Compensation Node.
2	FB	Feedback and Output Sensing
3	OVP	Output Over Voltage Protection Detect
4	VDD	IC Power Supply
5	DRAIN	DRAIN of internal HV Power MOSFET
6	SW	HV Power MOSFET Source Driver
7	CS	MOSFET Current Sense
8	GND	IC Ground

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