晶丰明源半导体

BP2606CA

BOOST PFC CV LED Driver

Description

BP2606CA is a Boost PFC driver with high efficiency, high PF and low THD. The device operates in critical conduction mode and is suitable for Boost power factor correction as a pre-stage of two-stage LED driver.

BP2606CA utilizes MOSFET source 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.

BP2606CA offers rich protection functions to improve the system reliability, including load open circuit protection (Over Voltage Protection), MOSFET over current limit and thermal regulation function.

BP2606CA is available in SOP-8 package。

Features

- Critical Conduction Mode Operation
- Ultra-Low Operating Current
- Accurate Internal Reference Voltage
- Integrated 500V Power MOSFET
- Load Open Protection
- MOSFET Over Current Limit
- VCC Under Voltage Protection
- Available in SOP-8 Package

Application

- Boost PFC pre-converter

Typical Application

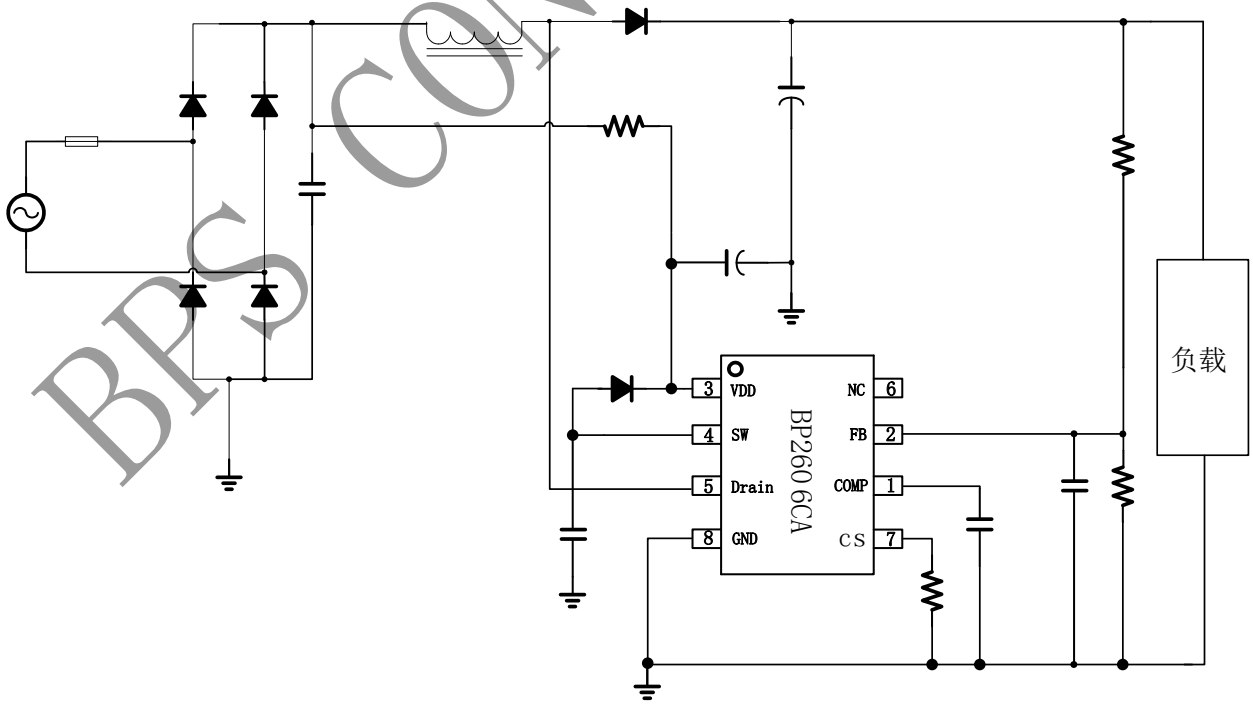
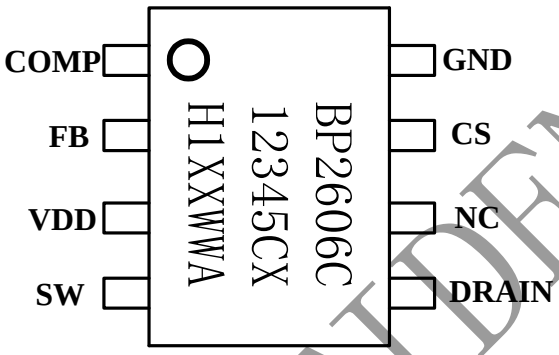


Figure 1. Typical application circuit for BP2606CA Boost CV

Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP2606CA	SOP8	-40 ℃ to 105 ℃	Tape 4,000 Piece/Reel	BP2606C 12345CX H1XXWWA

Pin configuration and Marking Information



12345: lot code
X：Sign
WW: Week
C： Internal Power MOSFET

Figure 2. Pin Configuration

Pin Definition

Pin No.	Name	Description
1	COMP	Loop Compensation Node.
2	FB	Feedback and Output Sensing
3	VDD	IC Power Supply
4	SW	HV Power MOSFET Source Driver
5	DRAIN	DRAIN of internal HV Power MOSFET
6	NC	Not Connected
7	CS	MOSFET Current Sense
8	GND	IC Ground

Disclaimer

The information provided in this datasheet is believed to be accurate and reliable. However, Bright Power Semiconductor (BPS) reserves the right to make changes at any time without prior notice.

No license, to any intellectual property right owned by BPS or any other third party, is granted under this document. BPS provides information in this datasheet "AS IS" and with all faults, and makes no warranty, express or implied, including but not limited to, the accuracy of the information provided in this datasheet, merchantability, fitness of a specific purpose, or non-infringement of intellectual property rights of BPS or any other third party. BPS disclaims any and all liabilities arising out of this datasheet or use of this datasheet, including without limitation consequential or incidental damages.