BP2616E

Boost PFC CC LED Driver

Description

The BP2616E is a high efficiency and high PF LED driver. The device operates in critical conduction mode and is suitable for universal input Boost LED driver.

The BP2616E utilizes advanced MOSFET gate driving technique and HV power supply. With very few external components, it can achieve excellent constant current performance, so the system cost and size are greatly reduced

The BP2616E offers rich protections, including LED open circuit protection (Over Voltage Protection), cycle-by-cycle over current protection and thermal regulation function.

BP2616E is available in SOP-8 package.

SOP-8 package

Features

- Internal compensation for close loop control
- Critical conduction mode operation
- Internal 600V JFET power supply, no VCC capacitor
- ±5% LED output current accuracy
- Accurate LED open protection
- RTH for adjustable thermal regulation
- Available in SOP-8 package

Applications

- LED Bulbs
- LED Candle Lamps
- Other LED Lighting

Typical Application

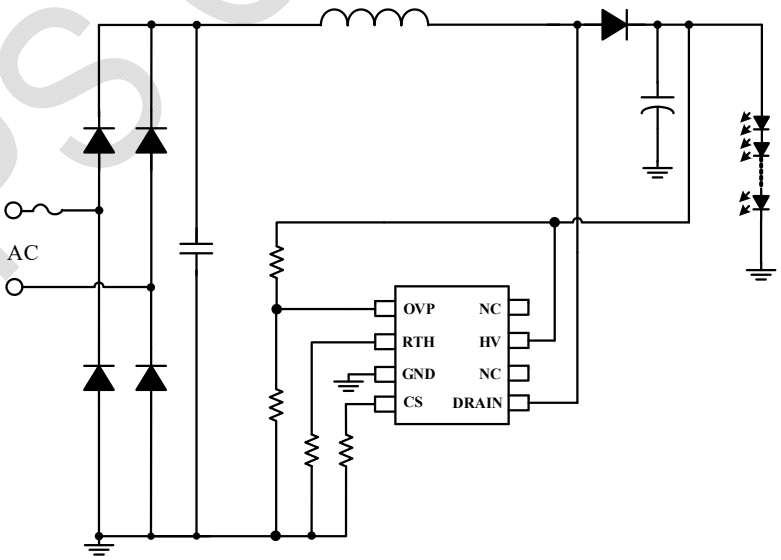
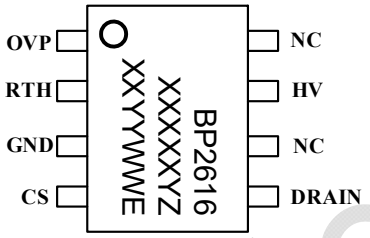


Figure 1 Typical Application of BP2616E

Ordering Information

Part Number	Package	Package Method	Marking
BP2616E	SOP-8	Tape 4,000pcs/Reel	BP2616 XXXXXYZ XXYYWWE

Pin Configuration and Marking Information



BP2616E: Part Number
XXXXXY: Lot Code
XXYY: Sign
WW: Week
Z: Reserved

Figure 2 Pin Configuration

Pin Definition

Pin No.	Name	Parameter
1	OVP	Output voltage sensing for Over Voltage Protection.
2	RTH	Initial temperature setting and NTC function of over temperature regulation.
3	GND	IC Ground.
4	CS	Current sensing pin.
5	DRAIN	DRAIN of internal MOSFET.
6	NC	Not connected. NC pin shall not be connected to other nodes including HV and DRAIN in application.
7	HV	HV Power Supply pin
8	NC	Not connected. NC pin shall not be connected to other nodes including HV and DRAIN in application.

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.