Description

The BP2616C 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 BP2616C 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 BP2616C offers rich protections, including LED open circuit protection (Over Voltage Protection), cycle-by-cycle over current protection and thermal regulation function.

BP2616C 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

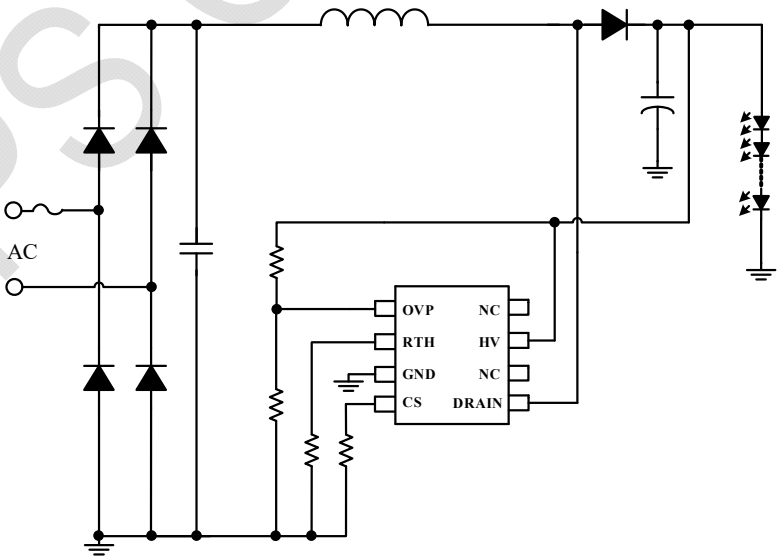
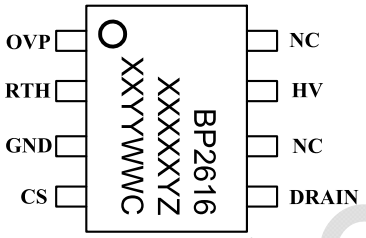


Figure 1 Typical Application of BP2616C

Ordering Information

Part Number	Package	Package Method	Marking
BP2616C	SOP-8	Tape 4,000pcs/Reel	BP2616 XXXXXYZ XXYYWWC

Pin Configuration and Marking Information



BP2616C: 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

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