

Boost PFC CC LED Driver

Description

The BP2618 is a high efficiency LED driver. The device operates in critical conduction mode and is suitable for Boost LED lighting.

The BP2618 utilizes advanced 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.

The BP2618 offers rich protection functions to improve the system reliability, including LED open circuit protection, LED short circuit protection, and thermal regulation function.

Features

- Internal compensation for close loop control
- Critical Conduction Mode Operation
- Internal JFET Power Supply, No VCC capacitor
- ±5% LED Output Current Accuracy
- LED Open Protection
- RTH for Adjustable Thermal Regulation
- Available in SOP-8 Package

Applications

- LED Candle Light
- LED Bulb
- Other LED Lighting



The BP2618 is available in a SOP-8 Package.

SOP-8 Package

Typical Application

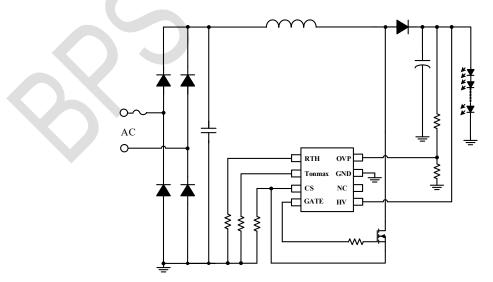


Figure 1 Typical application circuit for BP2618



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Ordering Information

Part Number	Package	Package Method	Marking
BP2618	SOP-8	Tape 4,000 pcs/Reel	BP2618 XXXXXYZ XXWWZ

Pin Configuration and Marking Information

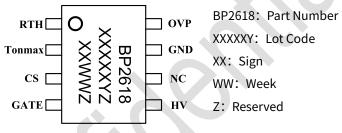


Figure 2 Pin Configuration

Pin Definition

Pin No.	Name	Description
1	RTH	Initial temperature setting and NTC function of over temperature regulation
2	Tonmax	Maximum MOSFET on time setting pin, Connect a resistor between Tonmax and GND pin
3	CS	Current Sense Pin. Connect a sensing resistor between CS and GND pin
4	GATE	Gate Driver Output. Connect to the gate of MOSFET.
5	HV	High Voltage Power Supply pin
6	NC	Not connected. Do not connect to other nodes including HV and DRAIN.
7	GND	Ground
8	OVP	Output voltage sensing for Over Voltage Protection



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