BP2636C

BOOST PFC CV LED Driver

Description

BP2636C is a Boost PFC driver with high efficiency, high PF and low THD. The device operates in critical conduction mode and is better for EMI and Efficiency improvement.

BP2636C utilizes MOSFET gate driving technique without any auxiliary winding. With very few external components count, it can achieve excellent constant voltage performance, so as to reduce the system cost and size greatly.

BP2636C offers rich protection functions to improve the system reliability, including load open circuit protection (Over Voltage Protection), MOSFET over current limit and over temperature protection.

BP2636C is available in SOP-8 package and the thermal condition is improved by optimized pin configuration.

Features

- PF>0.9, THD<10% at Universal Input
- Single-winding inductor for simple design
- Internal 500V MOSFET
- Critical Conduction Mode
- HV JFET for fast startup
- Voltage reference accuracy of up to ±2%
- Integrated protections
  - Output Over Voltage Protection
  - MOSFET Over Current Protection
  - VCC VULO Protection
  - Over Temperature Protection
- Available in SOP-8 Package

Applications

- BOOST APFC pre-converter

SOP-8 Package

Typical Application

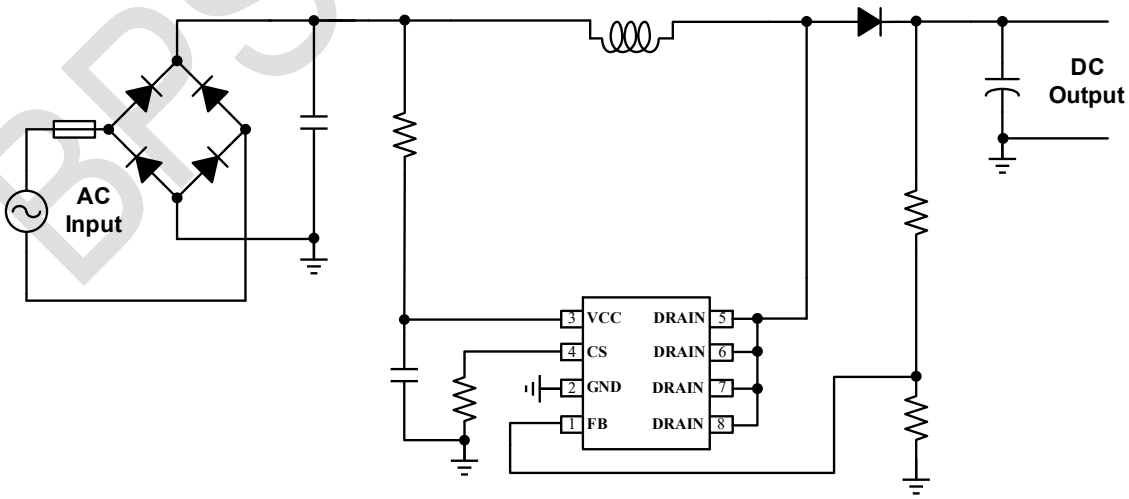
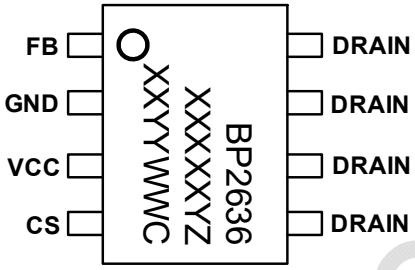


Figure 1 BP2636C Typical Application

Ordering Information

Part Number	Package	Package Method	Marking
BP2636C	SOP-8	Tape 4,000/Reel	BP2636 XXXXXYZ XXYYWWC

Pin Configuration and Marking Information



BP2636C: Part Number
XXXXXYZ: Lot Code
Z: Reserved
WW: Week

Figure 2 Pin Configuration

Pin Definition

Pin No.	Name	Description
1	FB	Boost output voltage sensing and feedback
2	GND	IC Ground
3	VCC	IC Power Supply
4	CS	Boost MOSFET Current Sensing
5, 6, 7, 8	DRAIN	DRAIN of Internal MOSFET

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