



晶丰明源半导体

BP2519

PSR Isolated CCCV Driver IC

Description

BP2519 is non-isolated CCCV driver IC. The device is suitable for 85Vac~265Vac universal input offline LED lighting. The BP2519 can perform in high accurate CCCV without external compensation capacitor, benefit to save the BOM size and cost.

The BP2519 supports multiple control mode of PWM and PFM, which contribute to very low standby power, high efficiency and minimum no load noise.

The BP2519 offers rich protection functions to improve the system reliability, including cycle by cycle peak current control, load open/short protection, VCC under/over voltage protection, and over temperature protection.

Typical Application

Features

- Non-Isolated CCCV control
- PWM/PFM multiple mode control
- Standby power <200mW
- $\pm 5\%$ Output Accuracy
- Internal soft startup
- Load open protection
- Load short protection
- VCC under voltage protection
- Over temperature protection
- Cycle by cycle peak current control
- Available in SOT23-5L package

Applications

- Chargers
- Standby/auxiliary power
- LED driving model

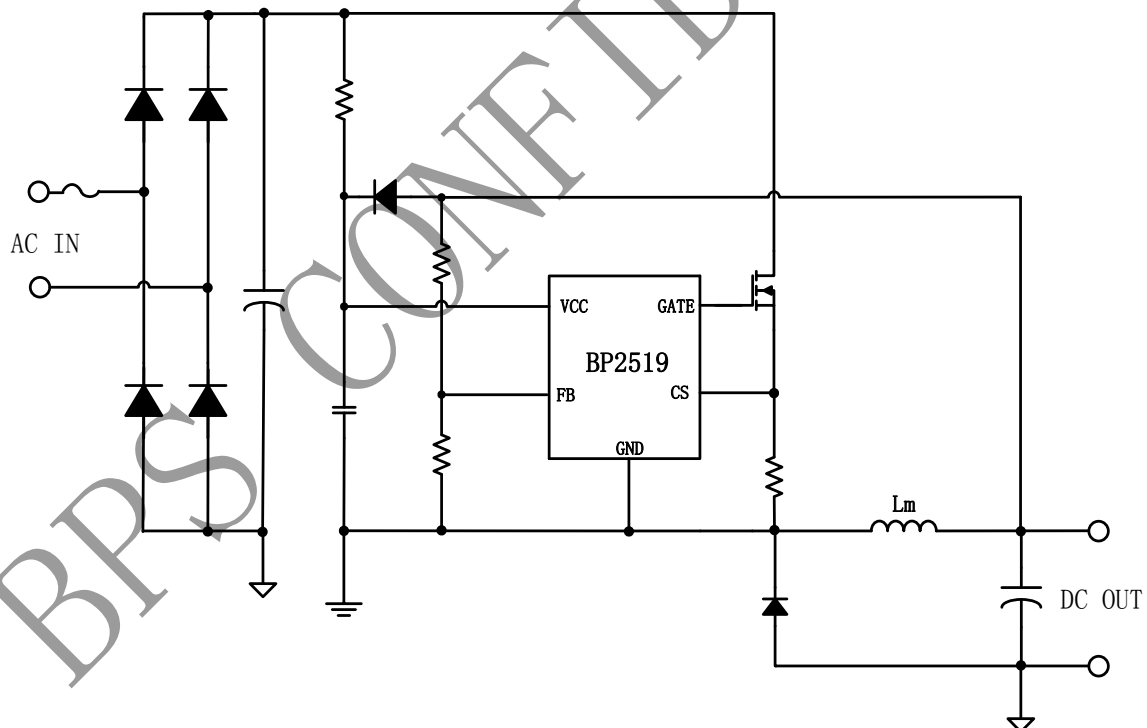


Fig1 Typical application circuit for BP2519



晶丰明源半导体

BP2519

PSR Isolated CCCV Driver IC

Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP2519	SOT23-5L	-40℃ to 105℃	Tape 3,000 Piece/Reel	2519

Pin Configuration and Marking Information

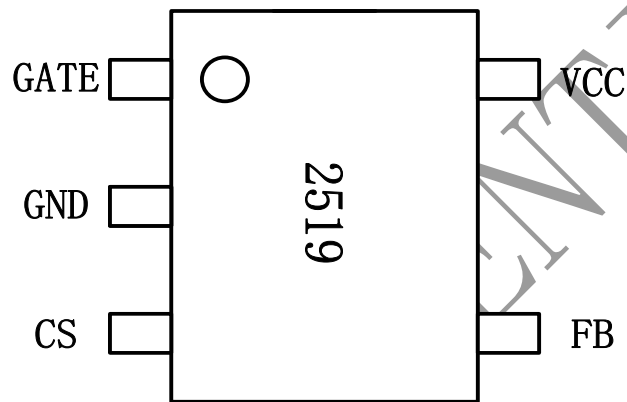


Fig2 Pin configuration

Pin Definition

Pin No.	Name	Description
1	GATE	Gate Driver Pin. Connect it to the gate of external power MOSFET
2	GND	Ground
3	CS	Current Sense Pin. Connect a sense resistor between this pin and GND pin.
4	FB	Feedback pin
5	VCC	Power Supply Pin