



晶丰明源半导体

# BP3519

PSR Isolated CCCV Driver IC

## Description

BP3519 is PSR isolated CCCV driver IC. The device operates in discontinued conduction mode and is suitable for 85Vac~265Vac universal input offline LED lighting. The BP3519 can perform in high accurate CCCV without external compensation capacitor, benefit to save the BOM size and cost.

The BP3519 supports multiple control mode of PWM and PFM, which contribute to very low standby power, high efficiency and minimum no load noise.

The BP3519 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.

## Features

- PSR Isolated CCCV control
- PWM/PFM multiple mode control
- Standby power <100mW
- $\pm 5\%$  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

## Typical Application

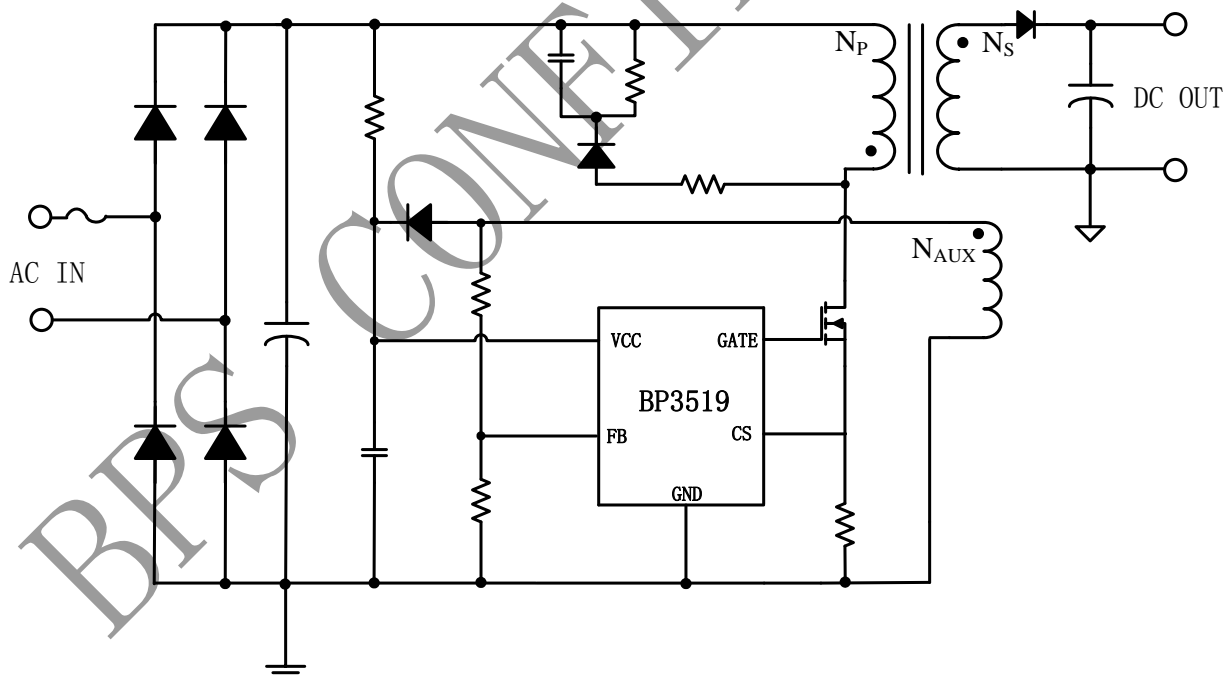


Fig1 Typical application circuit for BP3519



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## PSR Isolated CCCV Driver IC

### Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP3519	SOT23-5L	-40℃ to 105℃	Tape 3,000 Piece/Reel	3519

### Pin Configuration and Marking Information

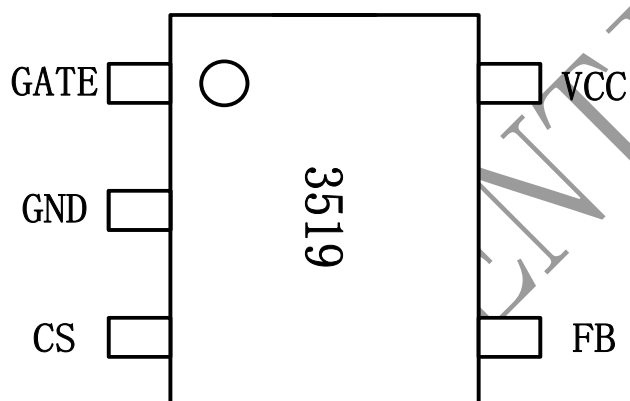


Fig2 Pin configuration

### 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