# BP3337DB

## Low PF Flyback PSR LED Driver

## Description

BP3337DB is a low PF PSR (Primary Side Regulation) constant current LED driver with high current accuracy. Along with Boost pre-converter, BP3337DB can provide two-stage isolated flicker-free light output.

BP3337DB provides with accurate constant on time control and current limit to control primary side current in case of input voltage dip. So, transform saturation is avoided to improve system reliability.

BP3337DB works in BCM mode, which can help to reduce switching loss and improve EMC performance.

BP3337DB provides with multiple protections, such as output over voltage protection (OVP), output short circuit protection (SCP), cycle-by-cycle over current protection (OVP) and thermal fold back. BP3337DB adopts DIP-7 package.
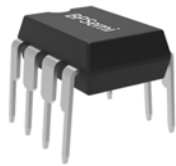
DIP-7 Package

## Features

- HV JFET inside to deliver fast start-up
- High accuracy of current reference (+/-3%)
- Good load regulation
- Critical conduction mode
- Low operating current
- VCC UVLO
- Cycle-by-cycle current limitation
- Output open/short protection
- Thermal fold back
- DIP-7 Package

## Applications
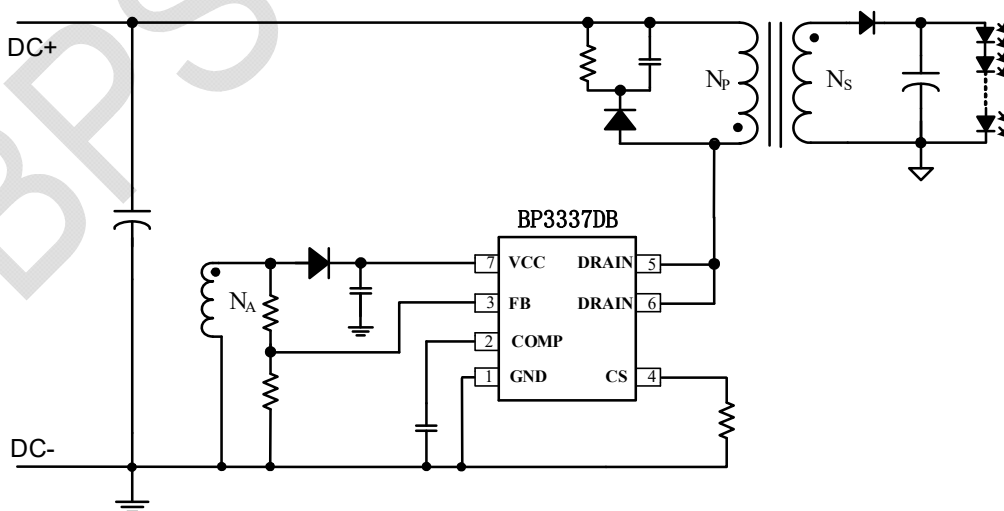
- LED panel light
- LED downlight

## Typical Application



Figure 1    BP3337DB Typical Application

## Ordering Information

| Part Number | Package | Package Method | Marking |
|---|---|---|---|
| BP3337DB | DIP-7 | Tube 50/Tube | BP3337D XXXXXYZ XXYYWWB |

## Pin Configuration and Marking Information



BP3337DB: Part Number
XXXXXY: Lot Code
XXYY: Sign
WW: Week
Z: Reserved
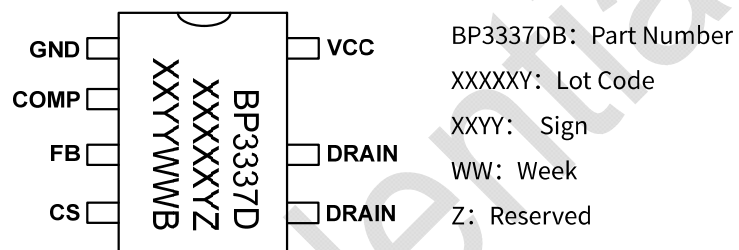
Figure 2    Pin Configuration

## Pin Definition

| Pin No. | Name | Description |
|---|---|---|
| 1 | GND | IC ground |
| 2 | COMP | Loop compensation |
| 3 | FB | ZCD detection and output voltage detection |
| 4 | CS | Primary side current sense, connected with sense resistor |
| 5 | DRAIN | DRAIN of internal MOSFET |
| 6 | DRAIN | DRAIN of internal MOSFET |
| 7 | VCC | Power supply for IC |

## Disclaimer

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