

Non-isolated Buck Offline LED Driver

Description

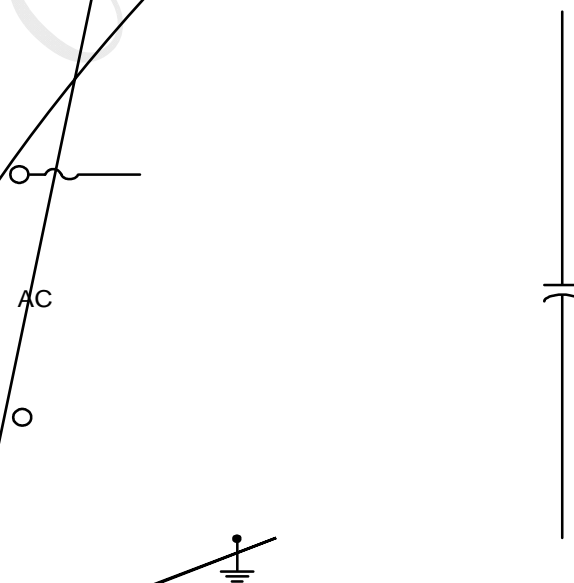
BP2863X is a high precision Buck constant current LED driver. The device operates in critical conduction mode and is suitable for 95Vac to 275Vac universal input AC for LED lighting.

BP2863X integrates a 500V power MOSFET, with MOSFET driving technique. It doesn't need a VCC capacitor and startup resistor. It can achieve excellent constant current performance with very few external parts, so the system cost and size are greatly reduced.

BP2863X operates in critical conduction mode, it can achieve precise output current and excellent line regulation. The driver output current does not change with the inductance and output voltage.

BP2863X offers protections to improve the system reliability, including LED short circuit protection, and thermal regulation function.

Typical Application



Features

- Integrated MOSFET
- Integrated VCC Superfast Recovery Diode
- No VCC Capacitor and Startup Resistor
- Integrated MOSFETs, IIC Power Switch
- No flicker in parallel with several lamps
- ±5% LED Output Current Accuracy
- Excellent Line Regulation
- Thermal Regulation Function
- Available in ASOP7 Package

Applications

- LED Bulb
- LED Tube
- Other LED Lighting



