



晶丰明源半导体

# BP2882

Non-isolation Two Way Buck LED Driver  
With Wall Switch Color Dimming

## Description

The BP2882 is an internal integrated high-voltage power supply, two way buck LED driver with wall switch color dimming, and is suitable for 85Vac~265Vac universal input offline LED lighting.

The BP2882 can detect three switch status by DET pin, cold, warm, mixed color.

The BP2882 operates in critical conduction mode, the output current does not change with the inductance and LED output voltage, and it achieves high precision output current control, and excellent line regulation and load regulation.

The BP2882 offers rich protection functions, including LED open/ short Protection, VCC under voltage protection, thermal shutdown function

The BP2882 is available in SOP-16 package

## Features

- Integrated DET Switch Detection Circuit
- Internal 700V Power MOSFET
- Wide Input Voltage
- $\pm 5\%$  LED Output Current Accuracy
- LED Open Protection
- LED Short Protection
- VCC Under Voltage Protection
- Thermal Shutdown Function
- Available in SOP-16 Package

## Applications

- LED Ceiling Lamp
- LED Panel Lighting
- LED Bulb
- Other LED Lighting

## Typical Application

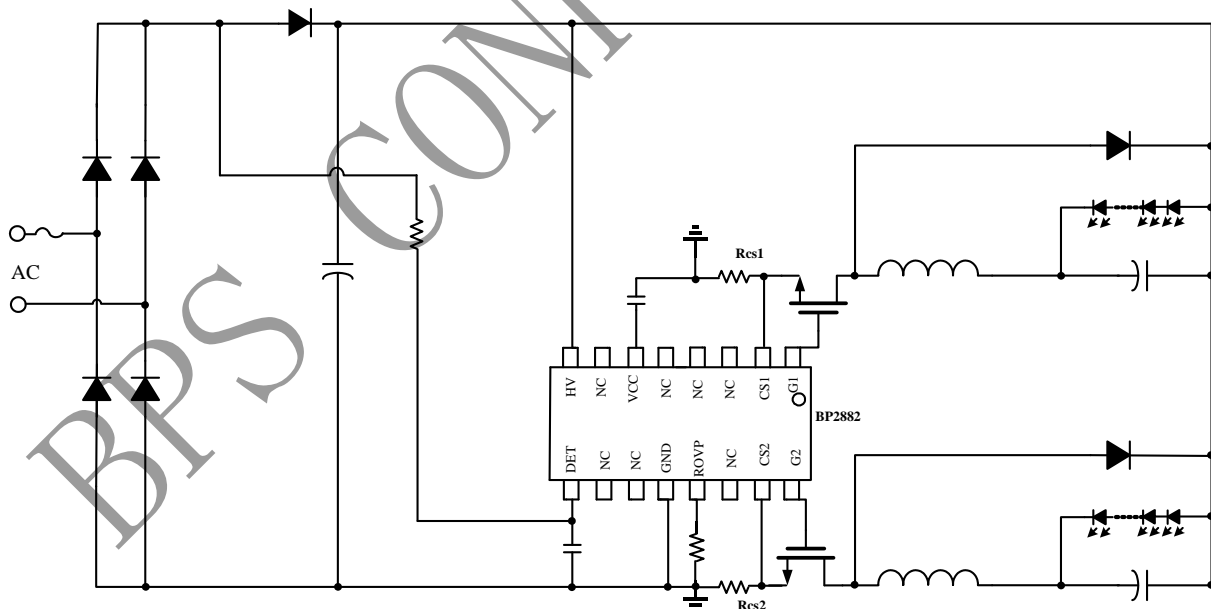


Figure 1. Typical application circuit for BP2882

## Ordering Information

Part Number	Package	Operating Temperature	Packing Method	Marking
BP2882	SOP-16	-40 °C to 105 °C	3000pcs/Reel	BP2882 XXXXXY YYY

## Pin Configuration and Marking Information

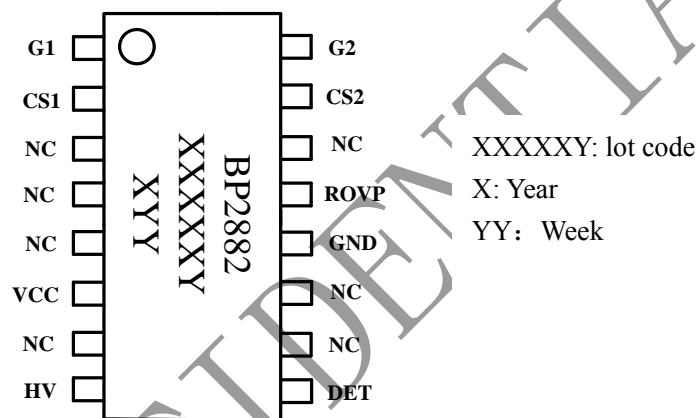


Figure 2. Pin configuration

## Pin Definition

Pin No.	Name	Description
1	G1	Internal BUCK controller2, external MOS Gate
2	CS1	Current sense pin1. Connect a sense resistor between this pin and GND pin.
3, 4, 5, 7, 10, 11, 14	NC	No Connection
6	VCC	Power supply pin
8	HV	High-voltage power supply pin
9	DET	Switch state detection pin
12	GND	Ground
13	ROVP	Over-voltage setting pin voltage
15	CS2	Current Sense Pin2. Connect a sense resistor between this pin and GND pin.
16	G2	Internal BUCK controller2 , external MOS Gate