

## Description

BP2364XN is a high precision non-isolated APFC buck LED driver, specially designed for universal mains with ~~multiple resonant converter~~. BP2364XN **operates in Critical Conduction Mode** to reduce the switching loss and optimize the EMI.

BP2364XN remove the VCC capacitor, COMP capacitor and  $R_{CS}$  resistor to simplify the external BOM. And it utilizes specific current detection, with few external components, it achieves high precision output current, excellent line regulation and load regulation.

BP2364XN offers full load protection functions to improve the system reliability, including LED load short protection. The system reliability is further improved by the thermal regulation function. The output current is reduced when the driver is in condition of over temperature.

## Features

- Active-PFC for High PF and Low THD
- No VCC and COMP capacitor
- Critical Conduction Mode Operation
- LED Short Protection
- LED Open Protection (OVP resistor ADJ)
- Enable function is compatible with switch color and sensor light
- Cycle by Cycle Current Limit
- Thermal Regulation Function
- Available in ASOP8 Package

## Applications

- LED Bulb
- LED Tube
- Other LED Light

## Typical Application

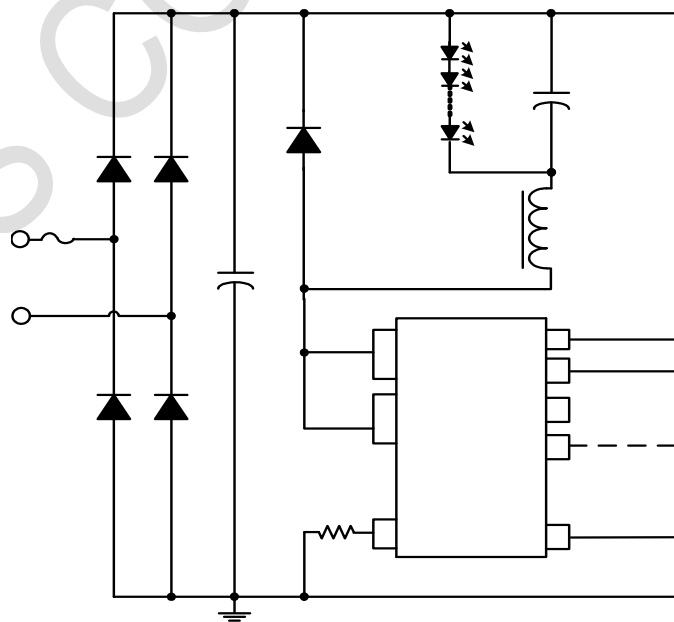
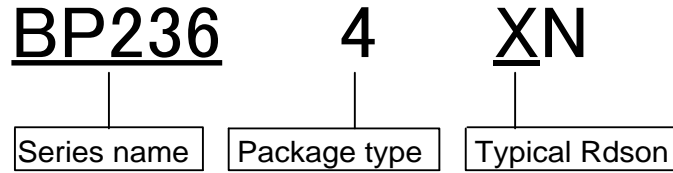


Figure 1. Circuit diagram of typical application BP2364XN

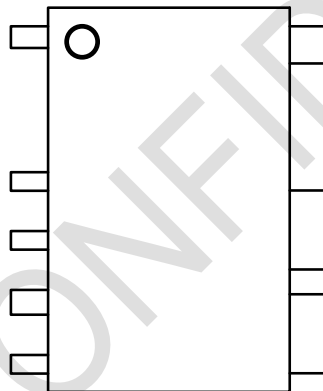
## Naming rules



## Ordering Information.

Part Number	Package	Packing Method	Marking
BP2364XN	ASOP8	Tape 5,000 pcs/Reel	BP2364 XXXXXYN ZZZZWWX

## Pin Configuration and Marking Information



XXXXX: Lot Code  
ZZZZ: Sign  
WW: Week

Figure 2. Pin configuration

## Pin Definition

Pin No.	Name	Description
1	GND	Ground.
2	ROVP	OVP set pin.
3	NC	No connection
4	HV	High Voltage Power MOSFET Gate Drive
5	VBUS	Rectifier bridge output positive pole
6,7	DRAIN	Internal HV Power MOSFET Drain.
8	CS	Current Sense Pin. Connect a sense resistor between this pin and GND pin.

## Disclaimer

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