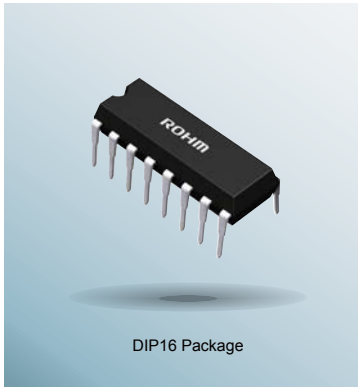


# 4ch PWM-Dimming LED Driver

BD9428



DIP16 Package

## LED Driver for LCD Backlighting Features Industry-Leading Efficiency

### Product Outline

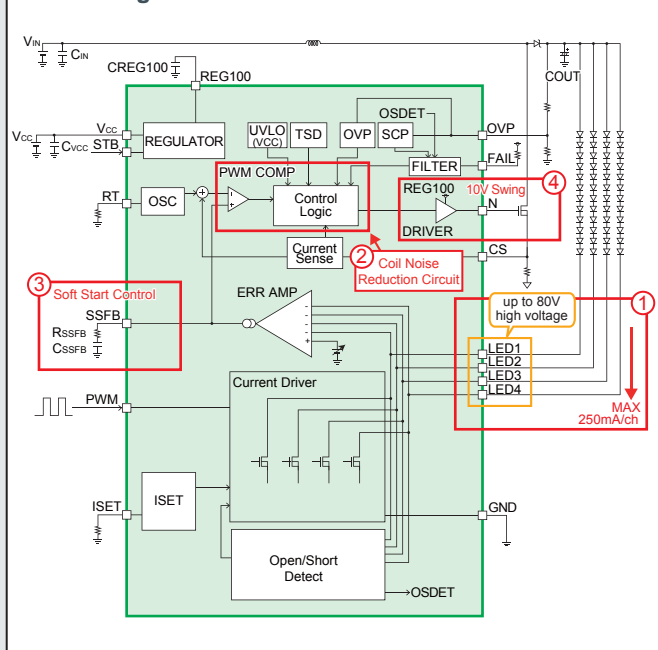
BD9428 contributes to save the power (high efficiency technology) of LED back light for LCD TV's or monitors. 4 channels of high voltage (up to 80V), high current capability (250mA/ch) LED current drivers are integrated. By integrating these high V/I current source, customer can unify the design models for each size of LCD panels. (Customer don't need to design one by one for each size of panels)

- Supports a wide range of panel sizes with high voltage capability and large current capability

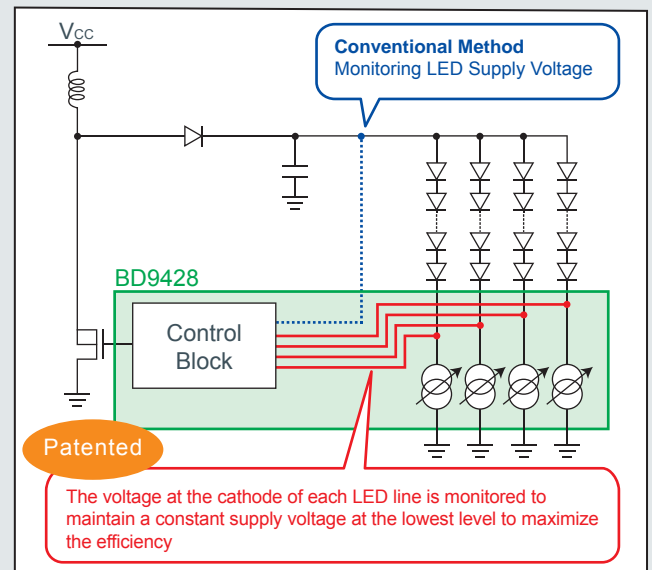
### Features

- ① Integrated 4ch (250mA/ch), 80V LED driver supports a wide range of panel sizes
- ② Audible noise reduction circuit is integrated
- ③ Anti inrush current by the soft start function
- ④ 10V swing output can drive external MOSFET for DC/DC

### Block Diagram



- A high efficiency system



**Conventional Method**  
Securing the output voltage to keep enough margin to the fluctuation of the LED's Vf

Additional Loss

Efficiency increased 10% (Estimated)

Improved Efficiency

**ROHM Patented**  
LED supply voltage optimization

U.S. Patent No. 7,235,954; 7,541,785; 7,944,189; 8,242,756

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