

## **DESCRIPTION**

PT6908 is a constant-current LED driver IC utilized constant frequency, controls buck, boost or buck-boost switch converter. In each control mode, PT6908 adopts the inductance current continuous conduction, peak current control mode and the feedback of the output current. It's controlled by the internal transconductance operational amplifier and external adjustable slope compensation, it is able to gain the high precision output current in closed loop.

The typical functions of PT6908 such as UVLO (Under Voltage Lockout), input current limit, open LED protection, output short circuit protection, output current precision control, linear dimming, PWM dimming, etc. In addition, multiple the sync pin of PT6908s or input the same clock signal, these ICs will operate on the same frequency.

Input voltage of PT6908 is 9V to 36V, the oscillator frequency is 25KHz~350KHz that setting by the external resistors, and the output PWM signal drive external power NMOS. PWM dimming input can accept an external control signal with a duty cycle 0~100% and a frequency between 100Hz to a few

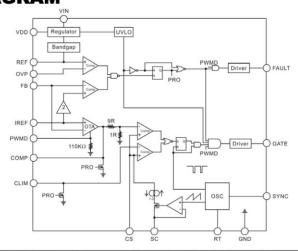
## **APPLICATIONS**

- LED backlight
- · Automotive LED lighting
- Other DC/DC LED drivers

## **FEATURES**

- >90% Efficiency
- · Operating voltage: 9V~36V
- Constant-current driver
- · Switch control mode: Buck, Boost, Buck-Boost
- · Stable operation frequency
- Slope compensation
- · Output current closed loop control
- Input current limit, output over voltage protection, output short-circuit protection
- Linear dimming & PWM dimming
- Synchronization
- · Soft start

## **BLOCK DIAGRAM**



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