

# PT4401/PT4402 White/Blue LED Driver for Li-Ion Battery Applications

## GENERAL DESCRIPTION

The PT4401/2 is a series of White/Blue LED drivers, with PT4401 capable of driving three LEDs and PT4402 driving four LEDs. There is no external component needed, which helps to lower the system cost significantly. The circuit is optimized to provide over 90% efficiency. The PT4401/2 is ideal to drive white LEDs used for Li-ion battery powered LCD displays. The LED brightness can be adjusted in real time through a PWM signal at the EN pin. The target end applications are small color LCD displays in mobile phones, smart phone, digital cameras, PDA etc. PT4401 is available in SOT23-6 package and PT4402 in MSOP-8 package, respectively.

## FEATURES

- ◆ No external component required
- ◆ Fixed 20mA and 15mA sinking current
- ◆ Individual current sink circuit for each output to prevent short/open circuit on LEDs
- ◆ PTC LED current for luminosity compensation
- ◆ 3 channels (PT4401) and 4 channels (PT4402) available
- ◆ PWM tuned LED brightness through EN pin
- ◆ Supply voltage range 2.7V~6.0V
- ◆ 0.1uA standby current

## APPLICATIONS

- ◆ Small Size Color LCD Backlights
- ◆ Mobile Phone, Smart Phone, PDA etc. Backlights

## TYPICAL APPLICATIONS

