

Step-up DC/DC Converter —Backlight Driver

■ General Description

The PN2115 Series is a fixed frequency, constant current step-up DC/DC converter ideal for driving LEDs used in backlighting applications on cellular phones, PDAs and digital cameras etc. Output voltage of up to 28V can be derived, and from a 3.2V input four white Led's cab be driven in series or alternatively, using a 3.0V input, a network of six LEDs may be driven. Luminance of the LED's is controlled by changing the duty cycle of a PWM signal applied to the CE pin.

■ Features

- Input voltage range 2.5V—6V
- Output voltage range up to 28V
- Oscillation frequency 1.5MHz±20%
- Efficiency 88%(When driving 3 white LEDs in series VIN=3.6V ILED=20mA)
- Control PWM control
- Stand-by Current ISTB=1.0uA(MAX)
- Load capacitor 10uF,ceramic

■ Ordering Information

PN2115 ①②③④⑤⑥

| Item | Symbol | Function |
|------|--------|---|
| ① | B | Denotes Lx Overvoltage Limit: Yes Denotes Oscillation Frequency:1.5MHZ |
| ②③④ | 025 | Denotes FB Voltage:0.25V |
| ⑤ | M | Denotes Package Type : SOT-23-6L |
| ⑥ | R | Embossed Tape :Standard Feed |
| | L | Embossed Tape :Reverse Feed |

- LX limit Current 1000mA

■ Applications

- For White LED Drivers
- Mobil phones, PHS
- PDAs
- Digital still cameras

■ Package

- SOT-23-6L

