



FIXED FREQUENCY WHITE LED BOOST IC

Features

- Inherently Matched LED Current
- High Efficiency:82%
- Drives Up to Five LEDs from 2.2V Supply
- 17V Over Voltage Protection
- Fast 1.4MHz Switching Frequency
- Requires Only 1 μ F Output Capacitors
- SOT-23-6 Package

Applications

- Communication equipment
- White LED Backlight Display for PDA
- Pocket PC
- Handheld Devices
- Cellular Phones
- White LED display backlighting

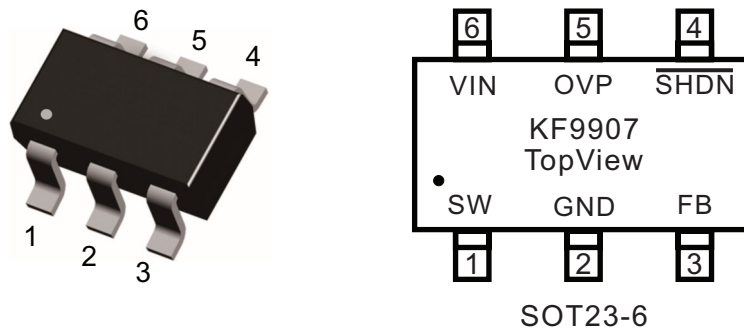
General Description

The KF9907 is a step-up DC/DC converter specifically designed to drive up to 5 series white LEDs with constant current. Series connection of the LEDs provides identical LED currents resulting in uniform brightness and eliminates the need for ballast resistors. The KF9907 switches at 1.4MHz, allowing the use of tiny external

components. A low 0.25V feedback voltage minimizes power loss in the current setting resistor for high efficiency. The OVP pin monitors the output voltage and turns off the converter whenever the LEDs are open.

The KF9907 is available in low profile SOT-23-6 package.

Pin Assignment



Typical Application Circuit

