



Features

- High Voltage Capability: VIN up to 28V, VOUT up to 36V
- Buck, Boost or Buck-Boost Operation
- 330kHz Fixed Switching Frequency
- Easy Dimming Control: Analog or Digital Converting to Analog with One External Capacitor
- Soft-Start to Avoid Inrush Current
- Over Voltage Protection
- VIN Under Voltage Lockout and Thermal Shutdown
- Package: QFN16L(0303×0.75-0.50)

Applications

- LED standby light
- Constant current source
- LED flashlight
- LCD backlight
- Building and Street Lighting

Description

The HX8007 is high efficiency, fixed frequency, Buck-Boost LED driver which operates from input voltages above, below or equal to the output voltage. With a current sense amplifier threshold of 190mV, the LED current is programmable with one external current sense resistor. The device is suitable for single lithium-ion, multi-cell alkaline or NiMH applications where the output voltage is within the scope of battery voltage. With the maximum operating input voltage of 28V and output voltage up to 36V, the HX8007 is ideal for buck, boost or buck-boost operation.

With the switching frequency 330kHz, the external inductor and capacitors can be small while maintaining high efficiency.

The HX8007 is available in the QFN16L(0303×0.75-0.50) package.