

High Efficiency, Constant Current, Boost DC/DC White-LEDs Drive

Features

■ Operating Voltage : 2.7V to 5.5V■ High Operating Frequency : 1MHz

■ High Output Voltage: 28V
■ Shutdown Current: <1µA
■ Over-Voltage Protection

■ Digital Dimming Control

■ Built-in Cycle-by-Cycle Current-Limiting

■ Soft-Start Function

■ 0.2V Low Reference Voltage

■ SOT-23-6 & TDFN2X2-8 Package

Applications

- LED Module
- Compact Back Light Module
- **■** Constant Current Source

General Description

The G5126 boost converter contains a 0.7Ω internal switch. The IC operates at constant frequency 1MHz, allowing the use of tiny, low cost and low height inductors and capacitors. The IC operates from a 2.7V to 5.5V supply voltage. High inrush current at start-up is eliminated using the soft-start function. Constant frequency current mode PWM architecture results in low, predictable output noise. The G5126 includes cycle-by-cycle 850mA current limiting to maximum inductor current and over-temperature protection circuit. The over-voltage protection will be enabled when VOUT exceeds 28V. The current of LED is set by a resistor connected between FB and GND. The G5126 is available in SOT-23-6 & TDFN2X2-8 package.

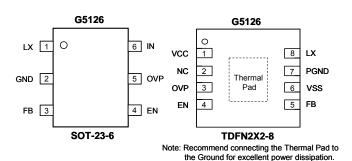
Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5126TB1U	5126x	-40°C to 85°C	SOT-23-6
G5126RC1U	5126	-40°C to 85°C	TDFN2X2-8

Note: TB: SOT-23-6 RC: TDFN2X2-8

1 : Bonding Code U: Tape & Reel

Pin Configuration



Typical Application Circuit

