

## Micro-Power Boost DC/DC Converter

### Features

- Operating Voltage : 2.7V ~ 5.5V
- High Operating Frequency : 1MHz
- Shutdown Current : <math><1\mu\text{A}</math>
- High Output Voltage : Up to 30V
- Soft Start Function
- Cycle by Cycle Current Limiting
- SOT-23-5 Package

### Applications

- STN/OLED BIAS
- Personal Digital Assistants
- DSC

### General Description

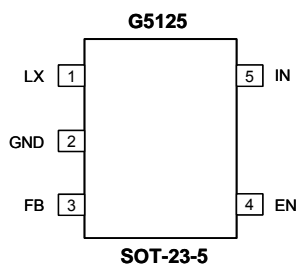
The G5125 boost converter contains a  $0.7\Omega$  internal switch. The IC operates at constant frequency 1MHz, allowing the use of tiny, low cost and low height inductors and capacitors. The IC operates from a 2.7V to 5.5V supply voltage and can boost supply voltage up to 30V at the output. High inrush current at start-up is eliminated using the soft-start function. Constant frequency current mode PWM architecture results in low, predictable output noise. The G5125 includes cycle-by-cycle 850mA current limiting to maximum inductor current and over-temperature protection circuit. The G5125 is suitable for small or medium size LCD panel of high bias voltage with a constant current to provide PDAs, and other portable devices. The G5125 is available in SOT-23-5 package.

### Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5125T11U	5125x	-40°C to 85°C	SOT-23-5

Note: T1: SOT-23-5  
 1 : Bonding Code  
 U: Tape & Reel

### Pin Configuration



### Typical Application Circuit

