G5125

Micro-Power Boost DC/DC Converter

Features
- Operating Voltage: 2.7V ~ 5.5V
- High Operating Frequency: 1MHz
- Shutdown Current: <1μA
- High Output Voltage: Up to 30V
- Soft Start Function
- Cycle by Cycle Current Limiting
- SOT-23-5 Package

General Description
The G5125 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 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.

Applications
- STN/OLED BIAS
- Personal Digital Assistants
- DSC

Ordering Information

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<th>ORDER NUMBER</th>
<th>MARKING</th>
<th>TEMP. RANGE</th>
<th>PACKAGE</th>
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<td>5125x</td>
<td>-40°C to 85°C</td>
<td>SOT-23-5</td>
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Note: T1: SOT-23-5
1: Bonding Code
U: Tape & Reel

Pin Configuration

Typical Application Circuit

Ver: 1.3
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TEL: 886-3-5788833
http://www.gmt.com.tw