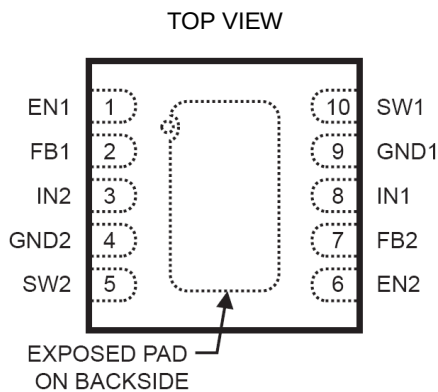




General Description

The OCP2161 contains two independent 1.5MHz constant frequency, current mode, PWM step-down converters. Each converter integrates a main switch and a synchronous rectifier for high efficiency without an external Schottky diode. The OCP2161 is ideal for powering portable equipment that runs from a single cell Lithium-Ion (Li+) battery. Each converter can supply 800mA of load current from a 2.5V to 6V input voltage. The output voltage can be regulated as low as 0.6V. The OCP2161 can also run at 100% duty cycle for low dropout applications.

Pin Configuration



Features

- Up to 95% Efficiency
- 1.5MHz Constant Switching Frequency
- 800mA Load Current on Each Channel
- 2.5V to 6V Input Voltage Range
- Output Voltage as Low as 0.6V
- 100% Duty Cycle in Dropout
- Current Mode Control
- Short Circuit Protection
- Thermal Fault Protection
- <0.1μA Shutdown Current
- Internally Compensated
- Space Saving 10-Pin QFN Package

Applications

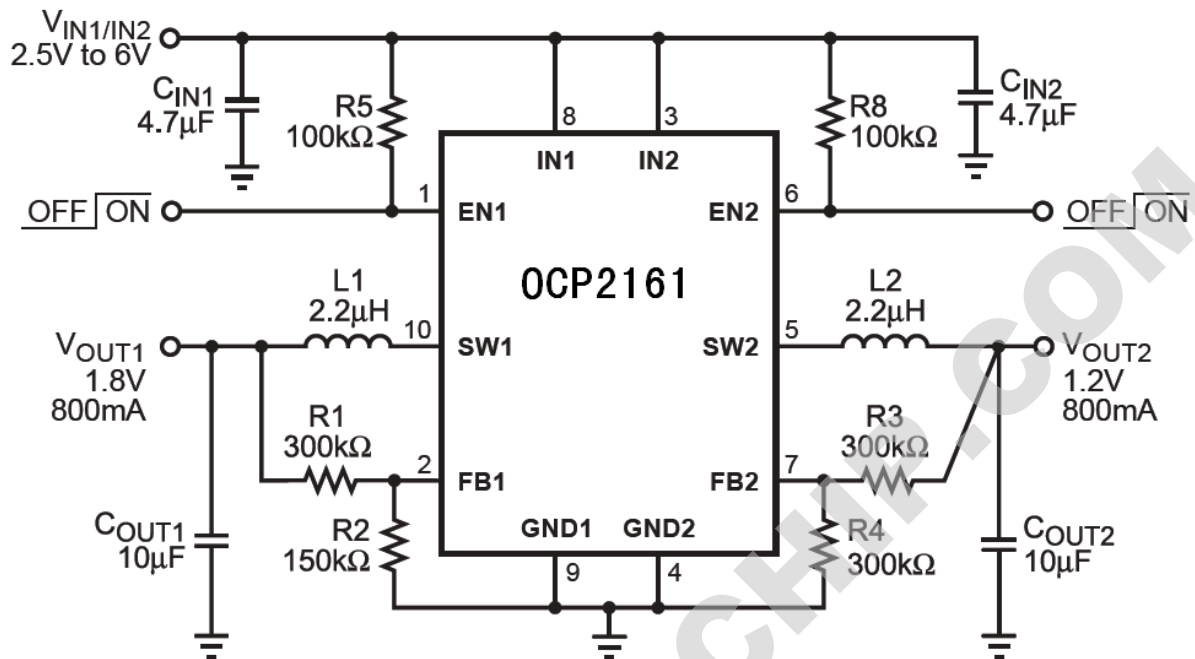
- Cellular and Smart Phones
- Microprocessors and DSP Core Supplies
- PDAs
- MP3 Players
- Digital Still and Video Cameras
- Portable Instruments

Pin Description

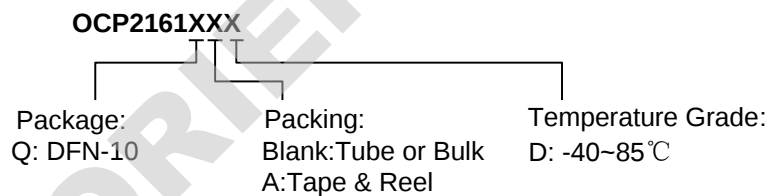
Pin Number	Pin Name	Pin Function
1	EN1	Channel 1 Enable Control Input. Drive EN1 above 1.5V to turn on the Channel 1. Drive EN1 below 0.3V to turn it off (shutdown current < 0.1μA).
2	FB1	Channel 1 Feedback Input. Connect FB1 to the center point of the external resistor divider. The feedback voltage is 0.6V.
3	IN2	Channel 2 Supply Input. Bypass to GND with a 2.2μF or greater ceramic capacitor.
4	GND2	Ground 2.
5	SW2	Channel 2 Power Switch Output. Inductor connection to drains of the internal PFET and NFET switches.
6	EN2	Channel 2 Enable Control Input. Drive EN2 above 1.5V to turn on the Channel 2. Drive EN2 below 0.3V to turn it off (shutdown current < 0.1μA).
7	FB2	Channel 2 Feedback Input. Connect FB2 to the center point of the external resistor divider. The feedback voltage is 0.6V.
8	IN1	Channel 1 Supply Input. Bypass to GND with a 2.2μF or greater ceramic capacitor.
9	GND1	Ground 1.
10	SW1	Channel 1 Power Switch Output. Inductor connection to drains of the internal PFET and NFET switches.



■ Typical Application



■ Ordering Information



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