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PRODUCT OUTLINE

CM1713ff – Linear Li-Ion Battery Charger
Programmable charging current up to 1.1A

Part Number

- CM1713ff

Status

- Silicon Proven

Features

- Programmable charging current (1.1A to 60mA)
- Programmable termination voltage (4.35V to 3.3V)
- 22V input tolerant
- Under voltage lock-out (UVLO)
- Power and charging status indicators
- Integrated power device
- Reverse current limiter
- Thermal Shutdown
- Built-in NTC

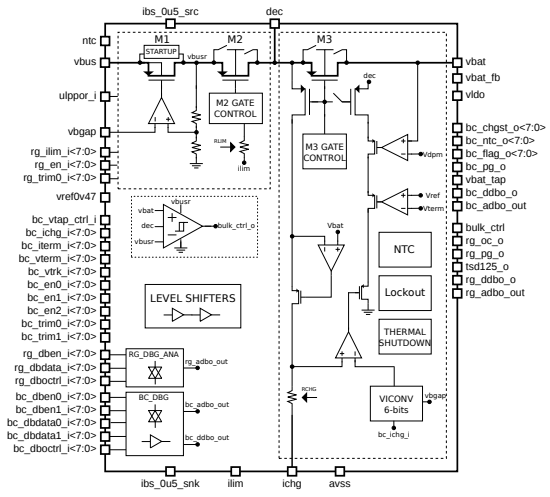
Overview

This IP is mainly responsible for controlling the charging process of a Li-Ion battery and for providing a regulated voltage to the system. The charging current can be adjusted from 60mA up to 1.1A through a external resistor or by the digital control. The current provided to the system can also be adjusted up to 1.8A through the same procedure. This IP also features a dynamic power management (DPM) which automatically reduces the charging current when the limit current may cause the system to fall. This IP also had a features bulk voltage control which connects the substrate of the power device correctly in order to prevent damage on the circuit.

Applications

- Portable electronic devices
- Home-automation
- Wireless speaker
- Portable media players

Functional Diagram



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Preliminary