

**Integrated Charger/Booster Converter with Power Path Control**


## General Description

The FP6806 is a highly integrated Power Management IC with switch-mode Li-Ion Battery Charger and DC-DC Boost Regulator for power bank use. It detects battery voltage and charges the battery in three phase: trickle-current, constant-current and constant-voltage. When in the constant-voltage mode, it is set to auto-termination as the charge current drops below termination current. A charge cycle restarts when the battery voltage falls below the restart threshold. Its low impedance power path optimizes the operation efficiency, reduces charging time and extends the battery lifetime during the discharge phase. The device provides various safety features in the charge and discharge phase, including over-current protection and over-voltage protection. When the junction temperature exceeds 120°C, the thermal regulation will reduce the charge current to almost zero. The FP6806 is available in the SOP8-EP package to reduce PCB space.

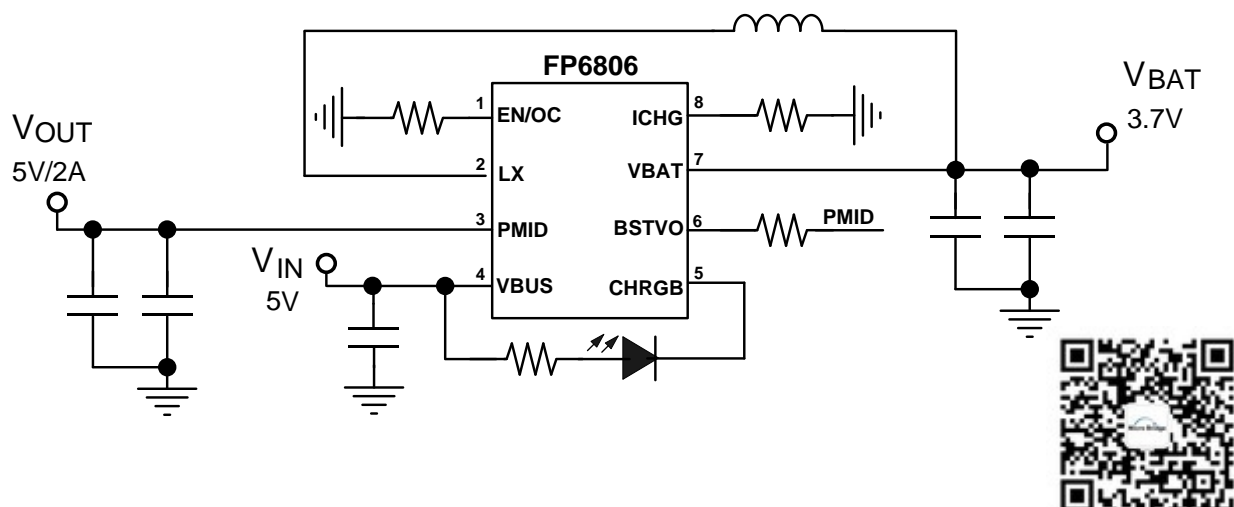
## Features

- Up to 2A Programmable Battery Charging Current
- Preset Charge Voltage with  $\pm 1\%$  Accuracy and Boost Output Voltage: 5.0V ( $\pm 2\%$ )
- Automatic Recharge
- Auto/Manual Charge Termination
- Adjustable Over Current Protection for Discharging
- Up to 90% Boost Conversion Efficiency
- Thermal Protection, OVP, OCP.

## Applications

- Power Bank for Smartphone & Table

## Typical Application Circuit



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