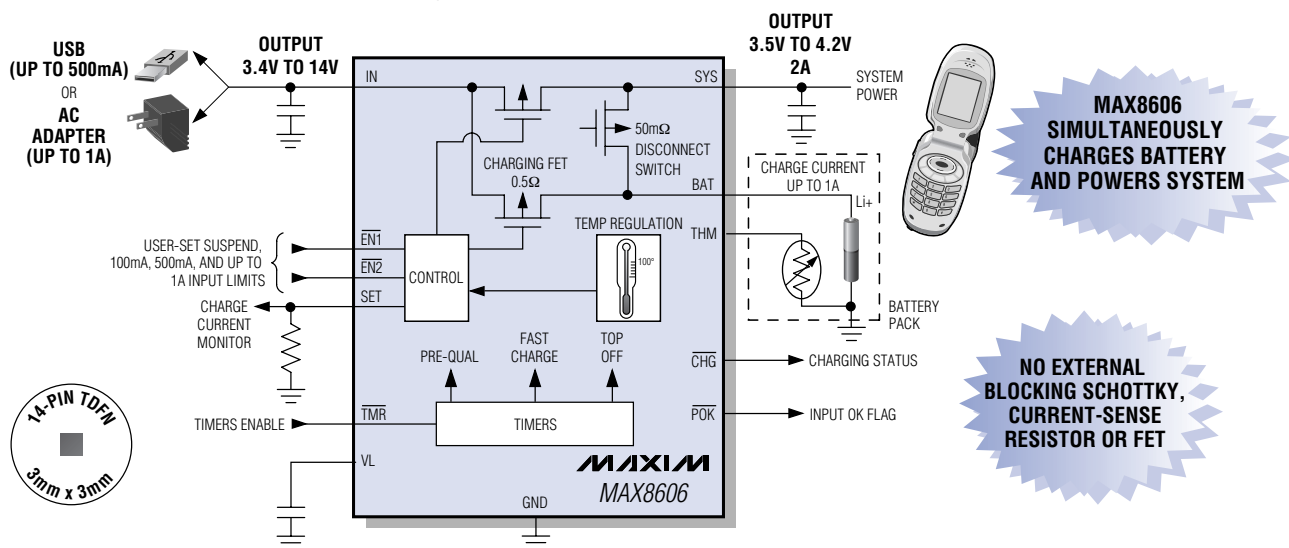


FIRST USB/AC-ADAPTER Li+ BATTERY CHARGER WITH 0.05Ω DISCONNECT SWITCH

Gives the Flexibility of Powering the System Before Charging the Battery

The MAX8606 temperature-regulated, linear Li+ battery charger integrates a low $R_{DS(ON)}$ battery-disconnect switch and operates from a USB port or AC adapter*. It meets USB overcurrent specifications and draws under 30μA USB current in suspend mode. When connecting to an AC adapter, an internal power FET allows up to 1A charging current and is guaranteed to withstand input transients up to 14V. A SYS output, in conjunction with the battery disconnect, allows the USB or AC adaptor input to power the system even when the battery is not installed or is deeply discharged. Temperature regulation automatically reduces the charge current to maintain a safe operating temperature and to continue the charge cycle uninterrupted.



- ◆ Advanced Constant Current, Constant Voltage, and Constant Die Temperature (CCCVCT_j)
- ◆ Up to 1A Programmable Fast-Charge Current
- ◆ Input Current Limits for USB Compliance
- ◆ Automatic Current Sharing Between Battery Charging and System Power

- ◆ Low-Dropout Internal Charging FET: 0.25V at 0.5A
- ◆ Overvoltage Protection Above 6V_{IN} (14V_{IN}, max)
- ◆ Evaluation Kit Available to Speed Designs
- ◆ Priced At \$1.90[†]

*Protected by U.S. Patent # 6,507,172

[†]1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.

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