

# General Description

The TCX8606 is a high integration solution for lithium-ion/polymer battery protection. TCX8606 contains internal power MOSFET, high-accuracy voltage detection circuits and delay circuits.TCX8606 has all the protection functions required in the battery application including overcharging, over discharging, overcurrent and load short circuiting protection etc. The accurate overcharging detection voltage ensures safe and full utilization charging. The low standby current drains little current from the cell while in storage. The device is not only targeted for digital cellular phones, but also for any other Li-Ion and Li-Poly battery-powered information appliances requiring longterm battery life.

The TCX8606 requires a minimal number of readily available, external components and is available in a space saving ESOP8 package.

### Features

Protection of Charger Reverse Connection Protection of Battery Cell Reverse Connection Over-temperature Protection **Overcharge Current Protection** Two-step Overcurrent Detection: Over Discharge Current Load Short Circuiting **Charger Detection Function 0V Battery Charging Function** RoHS Compliant and Lead (Pb) Free

## Applications

**One-Cell Li-ion Battery Pack** Power Bank

Typical Application Circuit

#### $20m\Omega$ Low R<sub>SS(ON)</sub> Internal Power MOSFET Delay Times are generated inside High-accuracy Voltage Detection Low Current Consumption Operation Mode: 0.7µA typ. Power-down Mode: 0.5µA typ. Only One External Capacitor Required Available in ESOP8 Package -40°C to +85°C Temperature Range

**One-Cell Li-poly Battery Pack** IOT Sensor/Electronic Toys

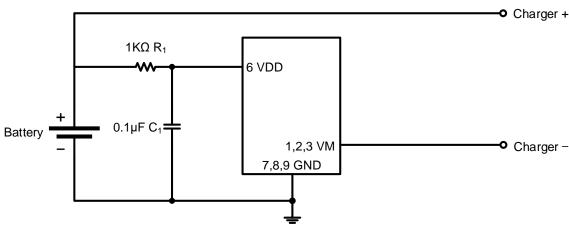


Figure 1. Typical Application Circuit