

## **General Description**

The TCX8886A is a high integration solution for lithium-ion/polymer battery protection. TCX8886A contains internal power MOSFET, high-accuracy voltage detection circuits and delay circuits. TCX8886A 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 long-term battery life.

The TCX8886A requires a minimal number of readily available, external components and is available in a space saving ESOP8 package.

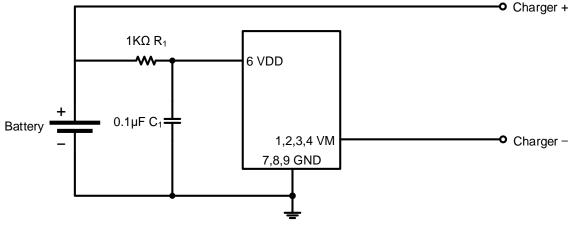
#### **Features**

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 OV Battery Charging Function RoHS Compliant and Lead (Pb) Free

### Applications

One-Cell Li-ion Battery Pack Power Bank 5.5mΩ Low R<sub>SS(ON)</sub> Internal Power MOSFET Delay Times are generated inside
High-accuracy Voltage Detection
Low Current Consumption
Operation Mode: 2.5µA typ.
Power-down Mode: 1.5µA 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

# **Typical Application Circuit**