

Features

- 3, 4, 5-serial cell selected by the SEL pin
- High-accuracy voltage detection circuit for each cell:
 - (1) Over charge detection voltage n (n=1 to 5), 3.6V to 4.5V (50mV step), accuracy $\pm 25\text{mV}$
 - (2) Over charge release voltage n (n=1 to 5), 3.4V to 4.5V (50mV step), accuracy $\pm 50\text{mV}$
 - (3) Over discharge detection voltage n (n=1 to 5), 2.0V to 3.0V (100mV step), accuracy $\pm 80\text{mV}$
 - (4) Over discharge release voltage n (n=1 to 5), 2.0V to 3.4V (100mV step), accuracy $\pm 100\text{mV}$
- 2-level discharge over current detection
 - (1) Discharge over current detection voltage: 0.05V to 0.3V (50mV step), accuracy $\pm 15\text{mV}$
 - (2) Short circuit detection voltage: 0.5V to 1.0V (100mV step), accuracy $\pm 100\text{mV}$
- Charge over current detection voltage: -0.3V to -0.05V (50mV step), accuracy $\pm 30\text{mV}$
- Settable by external capacitor: over charge detection, over discharge detection, discharge over current detection and charge over current detection delay time
- Support over temperature protection
- Build-in disconnection detection function
- 0 V battery charge function available/unavailable optional
- Sleep mode/None sleep mode optional
- TSSOP-16 package
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Lithium-ion rechargeable battery packs.
- Lithium polymer rechargeable battery packs.

General Description

The GS7711 is a protection IC for 3-series to 5-series cell lithium-ion rechargeable battery. The GS7711 includes high accuracy voltage detection circuits and adjustable delay circuits.

The GS7711 is used for protecting battery pack from over charge, over discharge, over current and over temperature condition.