



# CW1053

## 5 Cell Li-Ion/Polymer Battery Pack Protection IC

### Features

- Overcharge protection
  - Threshold from 4.175V to 4.350V, 25mV steps,  $\pm 25\text{mV}$  accuracy
- Over discharge protection
  - Threshold from 2.300V to 3.000V, 25mV steps,  $\pm 80\text{mV}$  accuracy
- Excess current protection
  - Excess current 1:  
Threshold from 0.030V to 0.100V, 10mV steps,  $\pm 5\text{mV}$  accuracy
  - Excess current 2:  
Threshold from 0.060V to 0.200V, 20mV steps,  $\pm 5\text{mV}$  accuracy
  - Short circuits protection:  
Threshold from 0.090V to 0.600V, 30mV steps,  $\pm 10\text{mV}$  accuracy
- Charge and discharge over temperature protection
- Automatic recovery after excess current protection
- Ultra low power dissipation
  - Normal working  $15\mu\text{A}$  ( $25^\circ\text{C}$ )
  - Sleep mode  $5\mu\text{A}$  ( $25^\circ\text{C}$ )
- Package type: SSOP16 /SOP16/QFN16L

### Applications

- Power tools
- E-bike
- Backup power supply
- Other lithium-ion or lithium polymer battery packs

### General Description

The CW1053 series products are highly integrated protection ICs for 5 lithium-ion and lithium polymer battery packs connected in series.

CW1053 provides complete protection for battery pack by measuring the voltage, current and temperature.

Typical Application

