

DW01A

General Description

The DW01A battery protection IC is designed to protect lithium-ion/polymer battery from damage or degrading the lifetime due to overcharge, overdischarge, and/or overcurrent for one-cell lithium-ion/polymer battery powered systems, such as cellular phones.

The ultra-small package and less required external components make it ideal to integrate the DW01A into the limited space of battery pack. The accurate $\pm 50\text{mV}$ overcharging detection voltage ensures safe and full utilization charging. The very low standby current drains little current from the cell while in storage.

Features

- **Reduction in Board Size due to Miniature Package SOT-23-6.**
- **Ultra-Low Quiescent Current at $3\ \mu\text{A}$ ($V_{\text{CC}}=3.6\text{V}$).**
- **Overdischarge Current at $4\ \mu\text{A}$ ($V_{\text{CC}}=1.8\text{V}$).**
- **Precision Overcharge Protection Voltage $4.3\text{V} \pm 50\text{mV}$**
- **Two Detection Levels for Overcurrent Protection.**
- **Delay times are generated by internal circuits. No external capacitors required.**

Ordering Information

DW01A

PACKAGE TYPE
SOT-23-6

TEMPERATURE RANGE
 $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$

OVERCHARGE PROTECTION
 $4.3\text{V} \pm 50\text{mV}$

Applications

- **Protection IC for One-Cell Lithium-Ion / Lithium-Polymer Battery Pack**

