

MM3734 Series

2023/07/20

Outline

The MM3734 series are voltage monitor ICs for rechargeable lithium-ion or lithium-polymer batteries secondary protection, using a high voltage CMOS process. 1-cell lithium-ion or lithium-polymer battery can be detected overcharge state. Internal circuit is composed of voltage detectors, reference voltage sources, an oscillator, a counter circuit and logical circuits.

Product Series

For 1 cell secondary protection

Features

1) High-accuracy detection voltage

- Detection voltage 4.0V to 4.5V, 5mV steps Accuracy \pm 20mV,
- Hysteresis voltage 0V to 1.0V, 50mV steps

However, "Detection voltage-Hysteresis voltage $<$ 4.0V" is disabled.

2) Range of Detection delay time

- Detection delay time Selectable from 0.25s, 1.02s, 2.048s, 4.096s

3) Low current consumption

- Normal mode Typ. 1.5 μ A, Max. 3.0 μ A
- Stand-by mode Max. 0.8 μ A

Specifications

		Overcharge	Overcharge	Overcharge detection	Overcharge release
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Product name	Package	detection voltage [V]	release voltage [V]	delay time [s]	delay time [ms]
MM3734A01YRE	SON-6C	4.500	4.150	2.048	16.0
MM3734A03YRE	SON-6C	4.550	4.200	2.048	16.0

Package

[SON-6C](#)