

MM3508B Series

2023/07/20

Outline

MM3508B series is a double protection IC for 2 to 4 serial cells lithium-ion / lithium-polymer rechargeable secondary battery. It detects battery voltage for each cell. Each of these IC composed of four voltage detectors, reference voltage sources, oscillator, counter circuit and logical circuits.

Product Series

For 2 to 4 cells secondary protection

Features

1. Range and accuracy of overcharge detection/hysteresis voltage
 - Overcharge detection voltage 4.0V to 4.5V, 5mV step Accuracy±20mV
 - Overcharge hysteresis voltage -500mV to -50mV, 50mV step Accuracy±20%
2. Range of detection delay time
 - Overcharge detection delay time $1\text{ms to } (1\text{ms} \times 2n_1) + (1\text{ms} \times 2n_2)$
 - *n1 and n2 can select two arbitrary integers between 0 to 13. (However $n_1 \neq n_2$)
3. Low current consumption
 - Typ. 3.5μA, Max. 5.0μA (Vcell=4.0V)
 - Typ. 0.15μA, Max. 0.30μA (Vcell=2.3V)

Specifications

Product	Stand by	Overcharge	Overcharge hysteresis	Overcharge hysteresis	Overcharge detection delay

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name	Package	function	detection voltage [V]	voltage 1/4~V41/4% [V]	voltage 1/4~V31/4% [V]	time [s]
MM3508B01RRE	SSON-6A	○	4.450	0.500	0.500	5.000
MM3508B06RRE	SSON-6A	○	4.350	0.620	0.270	4.000
MM3508B07RRE	SSON-6A	○	4.300	0.620	0.270	4.000
MM3508B08RRE	SSON-6A	○	4.450	0.620	0.270	4.000
MM3508B09RRE	SSON-6A	○	4.500	0.620	0.270	4.000
MM3508B10RRE	SSON-6A	○	4.400	0.620	0.270	4.500

Package[SSON-6A](#)[SOT-26A](#)