

## MM4128B/MM4129B Series

2023/08/01

### Outline

The MM4128B / MM4129B series is a double protection IC for 2 cell Li batteries. It detects battery voltage for each cell. The configuration of delay time can be achieved. Output at the time of detection can be held for a fixed period of time; therefore, this can maintain a regular disconnection time of a fuse. In addition, high cell voltage can be dropped and then stopped at the level where battery deterioration does not occur by Electrical discharge function of the IC after disconnecting the fuse.

### Product Series

For 2-cells secondary protection

### Features

- (1) Range and accuracy of detection and release voltage
  - Overcharge detection voltage 3.6V~5.0V, 5mV Step Accuracy±15mV
  - Overcharge release voltage 3.1V~5.0V, 50mV Step Accuracy±50mV
  - Standby detection voltage Selection from 2.5V or 3.5V Accuracy±300mV
- (2) Range of detection delay time
  - Overcharge detection delay time Selection from 1s or 2s or 4s or 8s
  - Overcharge release delay time Selection from Selection from 1ms or 2ms or 4ms or 8ms or 16ms
  - Overcharge detection timer reset delay time 16ms fixed
- (3) Range of internal regulator voltage
  - COUT terminal output voltage H 1.8V or 3.3V or 4.7V
- (4) Current consumption
  - Current consumption(Vcell=4.0V) Typ. 0.85uA Max. 1.70uA
  - Current consumption at standby(Vcell=2.0V) Typ. 0.15uA Max. 0.30uA

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### Specifications

Product name	Package	Stand by function	Overcharge detection voltage [V]	Overcharge release voltage [V]	Overcharge detection delay time [s]	Overcharge release delay time [ms]
MM4128B01RR4	SSON-6UorV	○	4.600	4.400	6.000	16.0
MM4128B02RR4	SSON-6UorV	○	4.650	4.300	4.000	16.0

### Package

[SSON-6U](#)[SSON-6V](#)