MM3508A Series

2024/02/28

Outline

MM3508A series is a double protection IC for 2 to 4 serial cells lithium-ion / lithium-polymer rechargable battery for secondary protection IC. It detects battery voltage for each cell.The FUSE cutting signal is the output between period of time. And the CELL voltage is released by electric discharge after FUSE was cut.

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 1ms to (1ms×2n1)+(1ms×2n2)

   *n1 and n2 can select two arbitrary integers between 0 to 13. (However n1≠n2)

3. Low current consumption
   - ●Typ. 3.5μA, Max. 5.0μA (Vcell=4.0V)
   - ●Typ. 0.15μA, Max. 0.30μA (Vcell=2.3V)

4. The FUSE cutting signal is the output between period of time.
And the CELL voltage is released by electric discharge resistance of "60KΩ" after FUSE was cut.
And CELL stops an electric discharge if the CELL voltage becomes less than the electric discharge release voltage.

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Specifications

Product name	Package	Latch function	Stand by function	Overcharge detection voltage [V]	Overcharge detection delay time [s]
MM3508A01RRE	SSON-6A	○	○	4.220	4.100
MM3508A02RRE	SSON-6A	○	○	4.350	4.100
MM3508A03RRE	SSON-6A	○	○	4.450	4.100
MM3508A04RRE	SSON-6A	○	○	4.320	4.100
MM3508A05RRE	SSON-6A	○	○	4.370	4.100
MM3508A06RRE	SSON-6A	○	○	4.500	4.100
MM3508A07RRE	SSON-6A	○	○	4.375	4.100

Package

SSON-6A

SOT-26A