MM3635

Outline

This IC is linear charge control IC for 1-cell Li-ion and Li-polymer batteries.

It is capable of charging from 0V of battery voltage, so it is adaptive for low capacity battery (coin) .

It is capable of setting of BAT regulation voltage according to various battery.

It does not require an externally provided sensing resistor or reverse-current protection diode, enabling reductions in the component count and the amount of generated heat.

Function to charge control (OFF) at high/low battery temperature ensures safety of battery.

Product Series

Linear Charger IC (Single function Type)

Features

- 1. Built-in Power MOSFET
- 2. Built-in reverse current protection
- 3. Charge voltage selectable (CVSEL pin)
- 4. Charge control charge temperature by thermistor (Stop:Over 45℃, under 0℃)
- 5. Built-in thermal regulation function
- 6. Charge status flag (Nch open drain)
- 7. Space saving package (2.7mm x 2.5mm x 0.55mm)
- 8. Operating temperature range Ta=-40~85℃

Applications

Small mobile device(Wearable device, healthcare device, others)



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Major Specification

Parameter	Specifications	Unit
Rating voltage (VIN)	6	V
Operating voltage range (VIN)	4.5~5.5	V
Charge voltage	4.2/4.05	V
Fast charge current	700	mA
Pre charge current	Fast charge current x0.1	mA
Fast charge starting voltage	3	V
Full charge current	Fast charge current x0.1	mA
BAT leakage current (max.)	2	μΑ
Thermal regulation temperature	93	$^{\circ}$
Charge timer	Pre:1, Fast:5	Hour

Package

SSON-10A