

MM3835W

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Outline

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

This IC can control accurate charge current (3 to 1000mA),so it is suitable for mobile devices used low-capacitance battery.

This IC have multiple rank matched charge voltage for each battery (4.20V, 4.35V, 4.1V).

Charging voltage and current can be controlled safely according to the battery temperature based on JEITA guideline.

Product Series

Linear Charger IC (Single function Type)

Features

1. Low charge current control suitable for low-capacitance battery (charge current 3mA min)
2. Multiple charge voltage (4.1V,4.2V,4.35V)
3. Selectable Full charge current setting (TERMSEL pin)
4. Low BAT leak current (100nA max)
5. Multiple battery temperature profile
6. Built-in thermal regulation function
7. Space saving package (2.7mm x 2.5mm x 0.55mm)
8. Operating temperature range Ta=-40~85°C

Applications

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

Major Specification

Parameter	Specifications	Unit
Rating voltage (VIN)	13	V
Operating voltage range (VIN)	4.4~6.0	V
Charge voltage	4.1/4.2/4.35	V
Fast charge current	3- 1000	mA
Pre charge current	Fast charge current x0.1	mA
Fast charge starting voltage	3	V
Full charge current	Fast charge current x0.1/x0.05	mA
BAT leakage current (max.)	100	nA
Thermal regulation temperature	93	°C
Charge timer	Pre:1, Fast:5	Hour

Package

SSON-10A