

MM3358

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Outline

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

This IC does not require 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 control charge temperature by thermistor (Stop:Over 43°C, under 2°C)
4. Built-in thermal regulation function
5. Charge status flag (Pch open drain)
6. Space saving package (2.7mm x 2.5mm x 0.55mm)
7. Operating temperature range $T_a = -40 \sim 85^\circ\text{C}$

Applications

Mobile device(Wearable device, healthcare device, others)

Major Specification

Parameter	Specifications	Unit
Rating voltage (VIN)	6	V
Operating voltage range (VIN)	4.0~6.0	V
Charge voltage	4.2	V
Fast charge current	1500	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	μA
Thermal regulation temperature	93	°C
Charge timer	Pre:1, Fast:5	Hour

Package

PLP-10A