

## Product Overview

### LC709301F: Battery charge / discharge controller IC for 1-Cell lithium ion/polymer battery.

For complete documentation, see the data sheet.

LC709301F is a battery charge / discharge controller IC for 1-Cell lithium ion/polymer battery. LC709301F incorporates 20 x amplifier, 10-bit High-speed PWM, 12-bit resolution AD converter and temperature sensor. Our 12-bit resolution AD converter with 20 x amplifier and 10-bit High-speed PWM achieves highly accurate charging control. With small package, VCT24(3.5mm x 3.5mm), LC709301F will save print circuit board area for mobile applications.

### Features

- 10 x / 20 x amplifier
- 8/10-bit High-speed PWM (150kHz)
- Reference Voltage Generator Circuit (2V/4V) for an AD converter
- Temperature sensor
- Internal reset circuit
- 7-channel AD converter with 12-/8-bit resolution selector
- Internal oscillation circuits (30kHz/1MHz/8MHz)

### Applications

- Battery charge/discharge control

### End Products

- Electric toothbrush
- Electric shaver
- Charging case for wireless headphones
- Rechargeable LED light
- Electronic cigarette

### Part Electrical Specifications

Product	Compliance	Status	Type	Number of Cells Charged	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>D</sub> Max (μA)	Package Type
LC709301FRF-AUNH	Pb-free Halide free	Active	Li-Ion/Polymer	1	1.8	5.5		VCT-24

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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