## All in 1, Li Battery Charger Controller LS11, LS2811

# Linkas

### Features

- Build in MOSFET of charge switching circuit for saving external components.
  Build in voltage regulator, no need external voltage regulator components.
  Build in Temperature protect circuit for keeping IC at safe charge status.
  Base on battery voltage for going into related Pre-charge or Fast charge flow.
  Constant charge current mode, which fast charge current can be set by external resistor.
- Pre-charge mode, using smaller constant charge current for over discharge battery. Fast charge mode for normal battery,

which used setting current for shorten charge time.
Battery full is detected by charge current (Current Termination).
Multiple protect function: Over voltage, Under voltage, Over charge current.
Battery temperature protect function (LS2811 only).
Re-start function for un-plugged self discharge battery.
Wide range Vdd voltage: 4.5V~5.5V.
Dual color LED charge status display-Charge/red, Full/green, Defect/off.
Package: LS11: SOT-26; LS2811: SOP-8

### Pin Assignment SOT-26 Nmae SOP-8 I/O Description LED Iset 6 LPF 1 6 Iset T Charge current setting input GND 5 2 2 2 GND Ρ Ground Vdd 4 Vbat LS11 3 LPF Low Pass Filter 5 T 4 4 Vbat $\mathbf{O}$ Output drive to battery positive port 5 3 Vdd Ρ Iset 8 RST Power Input GND 2 7 LED 6 Tdet T **Temperature Detectinput** \_ LPF 3 Tdet 7 6 LED 0 1 LEDcharge status output Vdd Vbat 4 5 8 RST 0 IC Reset LS2811 Function Block Vdd Volt. Regulator Charge switching Vbat control LPF Low Pass 4 Temperature Logic detecting Tdet RST control Current LED Iset setting

### LS11, LS2811 All in 1, Li Charger IC Rev. er2.3

1

 www.linkas.com.tw
 www.linkas.com.cn