Linkas

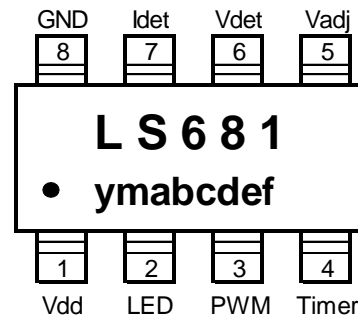## ■ Features

◆ Build-in high accuracy A/D convertor for detecting charge full conditions of Vfull.

◆ Noise filter logic design for reducing PCB's noise to meet high accuracy data collection.

◆ For 2 or multi cells NiMH battery charge application.

◆ Battery alive function for waking-up long time no use battery, which battery voltage is so low as no battery.

◆ Charge current is settable (by external Resistor); and Pre/ Fast current are automatically adjusted for different battery voltage level.

◆ 2 Charge full terminations
  - Battery voltage termination can be set to meet over 90% full capacity.
  - Timer termination: force to stop when timeout, for some minor portion of batteries whose full battery voltage is too low.

◆ Charge time out protect.

◆ Charge status indication by Single color LED for Power on/ Charge/ Full/ Defect.

◆ Re-start charge process for battery voltage drop by self-discharged.

◆ Working voltage: 4.5V.

◆ Marking: LS681
  ymabcdef
  ym: year / month.
  abcdef: Wafer tracking code.

◆ Package: SOP-8 (150 mil)

```
      GND   Idet  Vdet  Vadj
       8     7     6     5

          L S 6 8 1
       •  ymabcdef

       1     2     3     4
      Vdd   LED   PWM  Timer
```

■ Pin Assignment

Pin No.	Name	I/O	Description
1	Vdd	P	Power Input (4.5V)
2	LED	O	LED charge status output
3	PWM	O	Charge loop switching control output
4	Timer	I	Charge time out select input
5	Vadj	I	Full voltage fine tune adjust input
6	Vdet	I	Battery voltage detect input
7	Idet	I	Charge current setting/detect input
8	GND	P	Ground

LS681-N33, NiMH battery charger IC
Rev. er1.0
1
This Spec. may be changed without Notice.
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