

Features

1. The protection IC and The Dual-Nch MOSFET to use common Drain are integrated into One-packaging IC.

2. Reduced Pin-Count by fully connecting internally.

3. Application Part

- 1) Protection IC

- ① Uses high withstand voltage CMOS process.

- The charger section can be connected up to absolute maximum rating 28V.

- ② Detection voltage precision

- Overcharge detection voltage

$\pm 25\text{mV}$ ($T_a=25^\circ\text{C}$), $\pm 45\text{mV}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Overdischarge detection voltage

$\pm 70\text{mV}$ ($T_a=25^\circ\text{C}$), $\pm 80\text{mV}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Discharging overcurrent detection voltage

$\pm 10\text{mV}$ ($T_a=25^\circ\text{C}$), $\pm 20\text{mV}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Charging overcurrent detection voltage

$\pm 10\text{mV}$ ($T_a=25^\circ\text{C}$), $\pm 20\text{mV}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- ③ Built-in detection delay times

- Overcharge detection delay time

$1.00 \pm 0.20\text{s}$ ($T_a=25^\circ\text{C}$), $1.00[+0.50, -0.40]\text{s}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Overdischarge detection delay time

$20.0 \pm 4.0\text{ms}$ ($T_a=25^\circ\text{C}$), $20.0[+10.0, -8.0]\text{ms}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Discharging overcurrent detection delay time

$12.0 \pm 2.4\text{ms}$ ($T_a=25^\circ\text{C}$), $12.0[+6, -4.8]\text{ms}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Charging overcurrent detection delay time

$16.6 \pm 3.8\text{ms}$ ($T_a=25^\circ\text{C}$), $16.6[+8.4, -7.0]\text{ms}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- Short detection delay time

$400[+160, -170]\text{\mu s}$ ($T_a=25^\circ\text{C}$), $400[+400, -220]\text{\mu s}$ ($T_a=-30\text{~}70^\circ\text{C}$)

- ④ With abnormal charger detection function.

- ⑤ 0V charge function is allowed

- ⑥ Auto Wake-up function is allowed

2) FET

- ① Using advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge and operation with gate voltage as low as 2.5V while retaining a 12V $V_{GS(\text{MAX})}$.

- ② The protection for ESD

- ③ Common drain configuration

- ④ General characteristics

- V_{DS} (V) = 24V

- I_D (A) = 7A

- $R_{SS(ON)} < 19\text{m}\Omega$ ($V_{GS} = 3.9\text{V}$, $I_D = 1\text{A}$)

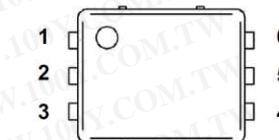
- ESD Rating : 2000V HBM

勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

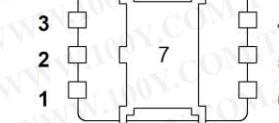
Pin Assignment

[Package : UTEP-6LS]

<Top view>



<Bottom view>



1	Source 1
2	Vss
3	V _{DD}
4	V-
5	N.C. (No Connect)
6	Source 2
7	Drain

Block Diagram

