


Protection Circuit Module

PCM / BMS / PCB

For 7.4V 2S Li-ion/Li-Polymer Battery Packs

Products Name	Battery PCM/BMS/PCB for 2S 7.4V Li-ion/Li-Polymer Battery (Packs)	
Manufacturer Part Number	HCX-683-1 2S-683-WH017002	
Dimension	L30.25*W5.9*T0.6(mm)	

1. Features:

This protection circuit is specially designed for 7.4V Li-ion/Li-Polymer Battery;
To prevent batteries from over charge, over discharge, ver current, short circuit.

2. Main Component:

S-8232AUFT+A08810

3. Parameters and Specification:

Item	Content	Criterion
1	Over charge protection voltage	4.30±0.025V
2	Over charge recovery voltage	4.10±0.05V
3	Over current protection current	3.5A-8.5A
4	Static self-consumption current	<10.0uA
5	PCB internal resistance	R≤65mΩ
6	Working current	2.5A

4. BOM List:

No	Position	Name	Components	Quantity
1	U1	IC	S8232AUFT TSSOP-8	1
2	U2	MOS	AO8810 TSSOP-8	1
3	R1/R2/R3/R4	SMD resistor	102 5% 1/16W 0603	4
4	R5	SMD resistor	475 5% 1/16W 0603	1
5	C1/C2/C3	SMD Capacitor	0.22UF 20% 12V 0603	3
6	R6	SMD resistor	104 5% 1/16W 0603	1
7	R7	SMD resistor	475 5% 1/16W 0603	1

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Factory Dongguan: 4F, Bldg B, RuiXin HengYe Industrial Park, TaiXing Rd # 18A, ShiGu District, TangXia Town, DongGuan, China

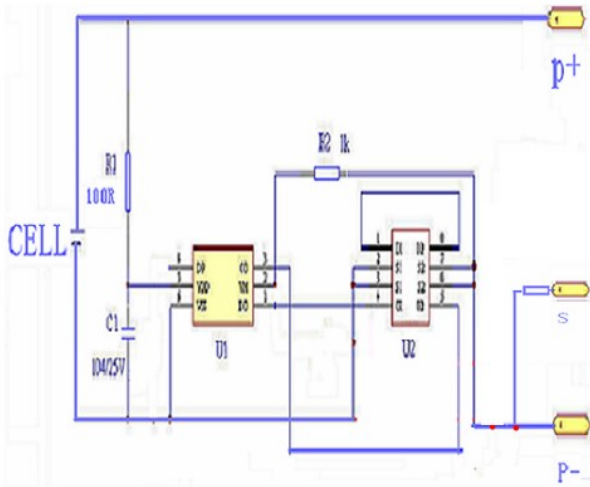
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5. Schematic Diagram:



6. Connection Instructions:



7. Solder Pad Positions:

TOP



BOTTOM



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PCB Reliability Test

- 1) Humidity Test: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
- 2) High Temperature Test: $+70^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- 3) Low Temperature Test: $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Note:

- 1) All parts are Lead Free and compliant with RoHS;
- 2) Compliant with UL, Fire rating 94V-0
- 3) PCM are compliant with HSF . (HSF: hazardous substance free).



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