

1 Outline

This specification is suitable for Four-serial-cell Lithium ion Battery Protection circuit manufactured by

2 Application

Lithium-ion rechargeable battery packs

Lithium-ion polymer battery packs

3 Electrical characteristics

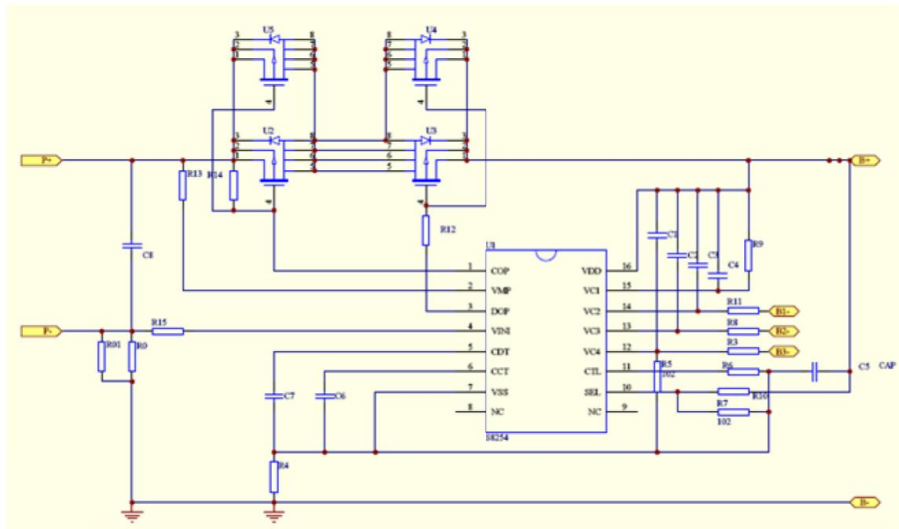
Item	Content	Criterion
Over charge Protection	Over charge detection voltage	4.35±0.025V
	Over charge release voltage	4.15±0.05V
Over discharge protection	Over discharge detection voltage	2.4±0.08V
	Over discharge release voltage	3.0±0.1V
	Rated operational current	9A
Over current protection	Over current detection current	13.5-16.5A
	Release condition	Cut load
	Detection delay time	8.0~16.0ms
Short protection	Detection condition	Exterior short circuit
	Release condition	Cut short circuit
Interior resistance	Main loop electrify resistance	$V_C=4.2V$; $R_{DS} \leq 30m\Omega$
Current consumption	Current consume in normal operation	35μA Max
Dimension(L*W*H)	50*16*1.1mm	

4 Parts list

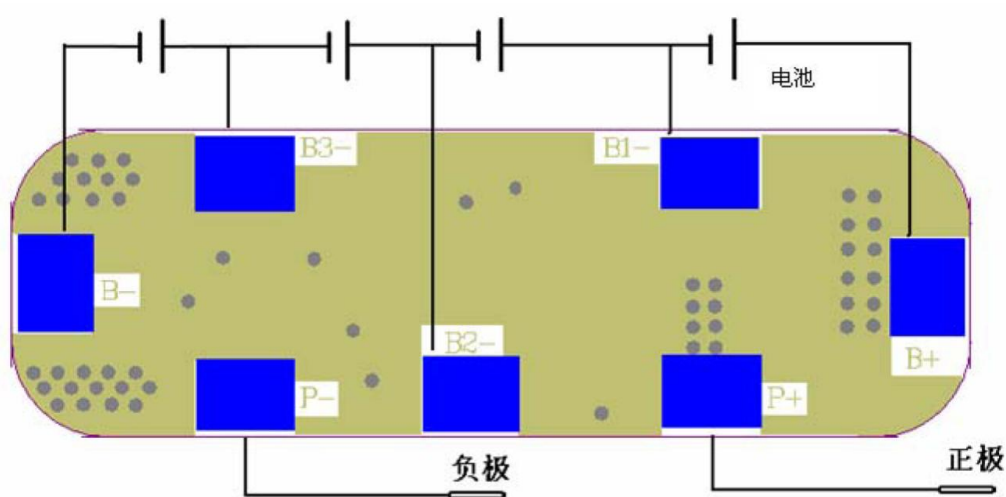
RG-L34S BOM

序号	物料名称	规格/型号	封装	位置/代号	数量	备注
1	贴片电阻	0R ±5%	0603	R5	1	
2	贴片电阻	1K ±5%	0603	R15, R8, R6, R3, R11, R9, R10, R7	8	
3	贴片电阻	1M ±5%	0603	R14	1	
贴片	贴片电阻	5.1K ±5%	0603	R12, R13	2	
料	贴片电阻	51R ±5%	0603	R4	1	
6	贴片电阻	0.02R 1W ±5%	2512	R0, R01	2	
7	贴片电容	0.1μF/50V ±20%	0603	C8, C7, C6, C4, C3, C2, C1	7	
8	贴片电容	2.2μF/50V ±20%	0805	C5	1	
9	IC	8254AAF	TSSOP-16	U1	1	
10	MOS	A04407	S0-8	U2, U3, U4, U5	4	
11	PCB	RG-L34S	50*16*1.1 mm		1	
13	备注: R3, R10贴1K. R5, R7不贴					

5 Application Circuit



6 PCB layout



7 Terminal explanations

- 7.1 B+: Connected to the fourth battery's positive terminal
- 7.2 B1-: Connected to the third battery's positive terminal
- 7.3 B2-: Connected to second the battery's positive terminal
- 7.4 B3-: Connected to the first battery's positive terminal
- 7.5 B-: Connected to the first battery's negative terminal
- 7.6 P+: Connected to the battery's output or the charger's positive terminal
- 7.7 P-: Connected to the battery's output or the charger's negative terminal