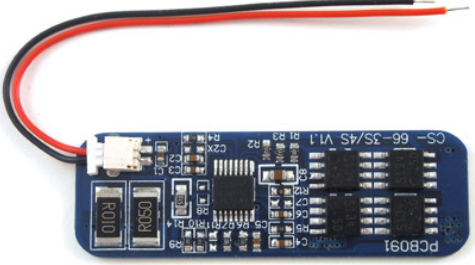


Product Name:	Protection Circuit Module (PCB) for 11.1V Li-Ion Battery Pack (3 cells with 6.5A limit)	
Product Number:	32006	
Dimension:	50mm x 16mm x 1.1mm	

Contents

1. Outline

This specification is suitable 3-serial-cell Lithium ion Battery Protection circuit manufactured by Tenergy Corporation.

2. Application

- (1) Lithium-ion rechargeable battery packs
- (2) Lithium-ion polymer battery packs

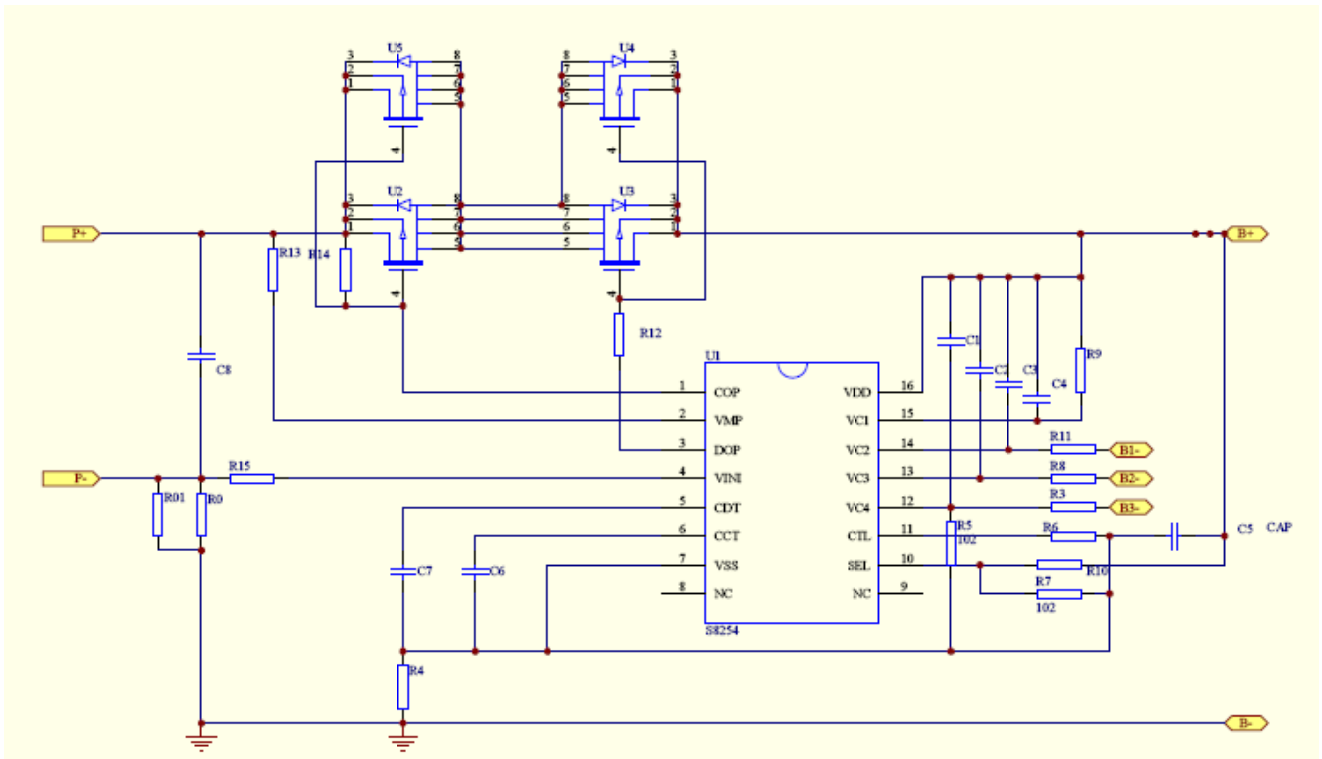
3. Electrical characteristics Top t=25°C

Item	Content	Criterion
Over charge Protection	Over charge detection voltage	4.35±0.025V
	Over charge release voltage	4.15±0.025V
Over discharge protection	Over discharge detection voltage	2.4±0.08V
	Over discharge release voltage	3.0±0.1V
	Rated operational current	5A
Over current protection	Over current detection current	5-6.5A
	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	$V_C=4.2V$; $R_{DS} \leq 60m\Omega$
Current consumption	Current consume in normal operation	35µA Max
Dimension (L*W*H)	50*16*1.1mm	

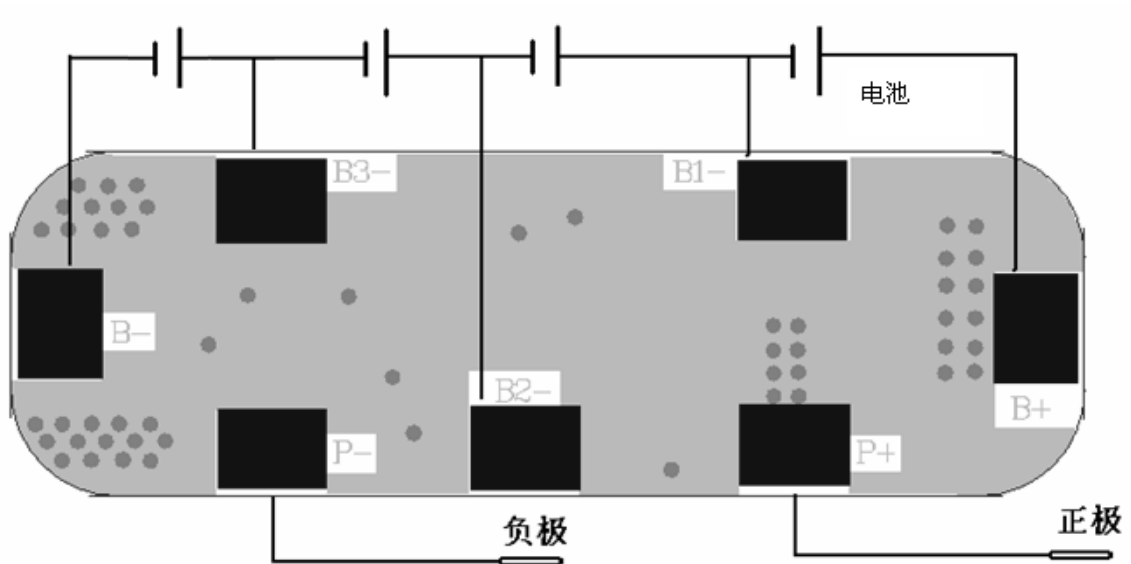
4. Parts list

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, RS, R6, R3, R11, R9, R10, R7	8	
3	贴片电阻	1M	±5%	0603	R14	1	
4	贴片电阻	5.1K	±5%	0603	R12, R13	2	
5	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	0.1uF 50V	±20%	0603	C8, C7, C6, C4, C3, C2, C1	7	
8	贴片电容	2.2uF 50V	±20%	0805	C5	1	
9	IC	8254AAF		TSSOP-16	U1	1	
10	MOS	FSS134		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

1. B+: Connected to the first battery's positive terminal
2. B1-: Connected to the second battery's positive terminal
3. B2-: Connected to third the battery's positive terminal
4. B3-: Connected to the forth battery's positive terminal
5. B-: Connected to the first battery's negative terminal
6. P+: Connected to the battery's output or the charger's positive terminal
7. P-: Connected to the battery's output or the charger's negative terminal