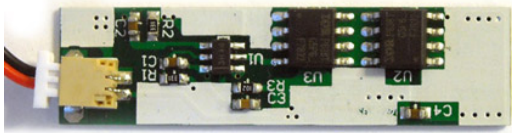


Product Name:	Protection Circuit Module (PCB) for 7.4V Li-ion Battery Packs 15Amps Limit	
Product Number:	32038	
Dimension:	38mm x 10mm x 0.8mm	

Contents

1 Outline

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

2 Application Lithium-ion rechargeable battery packs

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±0.05V
	Over charge detection delay time	1000ms
Over discharge protection	Over discharge detection voltage	2.3±0.08V
	Over discharge release voltage	3.0±0.05V
	Rated operational current	7A
Over current protection	Over current detection current	13-23A
	Release condition	Cut load
	Detection delay time	12ms
Short protection	Detection condition	Exterior short circuit
	Release condition	Cut short circuit
Interior resistance	Main loop electrify resistance	$V_C=4.2V$; $R_{DS} \leq 15m\Omega$

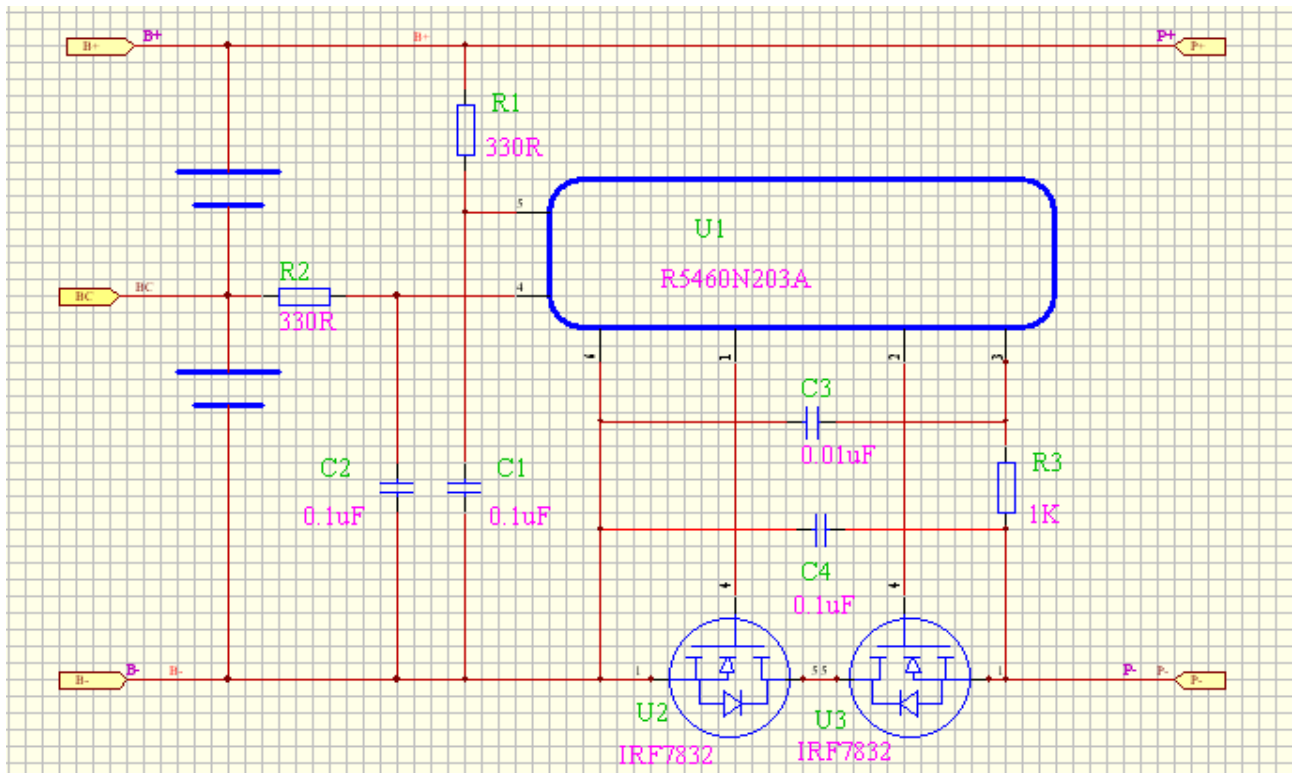


Current consumption	Current consume in normal operation	6µA Max
Dimension (L*W*H)	38*10*0.8mm	

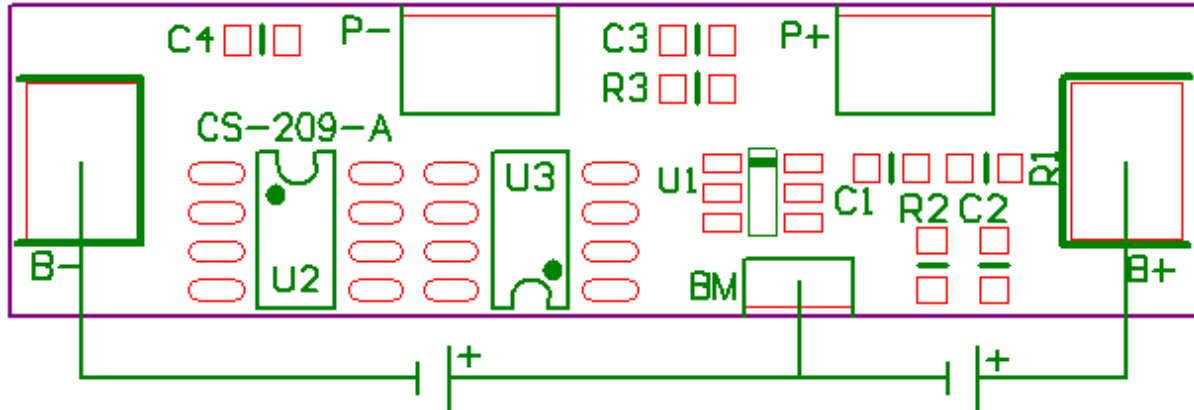
4 Parts list

	Position	Name	Feature	Encapsulation	Qty	Unit
1	R1,R2	Resistor	330 ohm	0603	2	PCS
2	R3	Resistor	1K ohm	0603	1	PCS
3	C1,C2,C4	Capacitance	0.1 uF	0603	3	PCS
4	C3	Capacitance	0.01 uF	0603	1	PCS
5	U1	IC	R5426N203A	SOT-236	1	PCS
6	U2,U3	IC	IRF7832	SOP-8	2	PCS
7		PCB	38×10×0.8mm		1	PCS

5 Application Circuit



6 PCB layout



7 Terminal explanations

1. B+: Connected to the second battery's positive terminal
2. BM/COM : Connected to the first battery's positive terminal
3. B- : Connected to the first battery's negative terminal
4. P+ : Connected to the battery's output or the charger's positive terminal
5. P- : Connected to the battery's output or the charger's negative terminal