



精锐电池科技有限公司
Intellect Pioneering Battery Technology
Co., Ltd.

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保护板规格书

PCM SPECIFICATIONS

客户名 Customer's Name	
产品类别 Production Type	保护板 PCM
产品型号 Production Model	PM266 (S8261-G3J+SIS8205)
制 订 Draft	DeKe Ke
审 核 Checked By	Zhijian Deng
QA 批 准 Approved By QA	YaPing Hu
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版本更新记录

Revision History

Date 日期	Description 更新内容	Checked By 审核	Approved By QA QA 批准	Approved By GE 总工批准
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1 Outline 综述

This specification is suitable One-serial-cell Lithium ion Battery Protection circuit manufactured by Intellect Pioneering Battery Technology Co., Ltd.

2 Application 应用范围

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

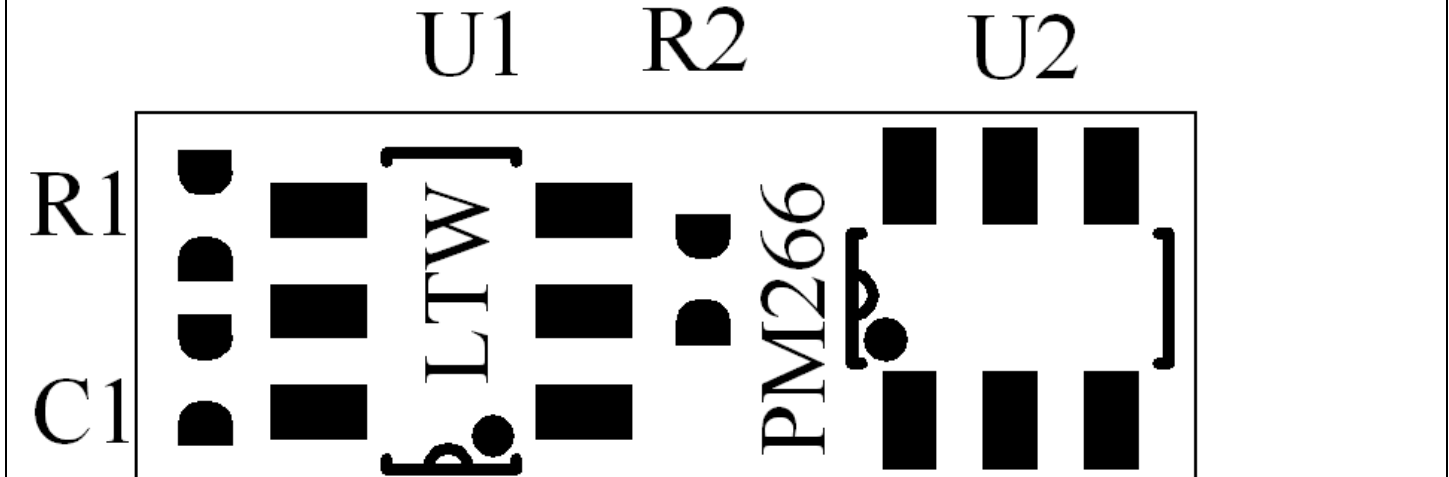
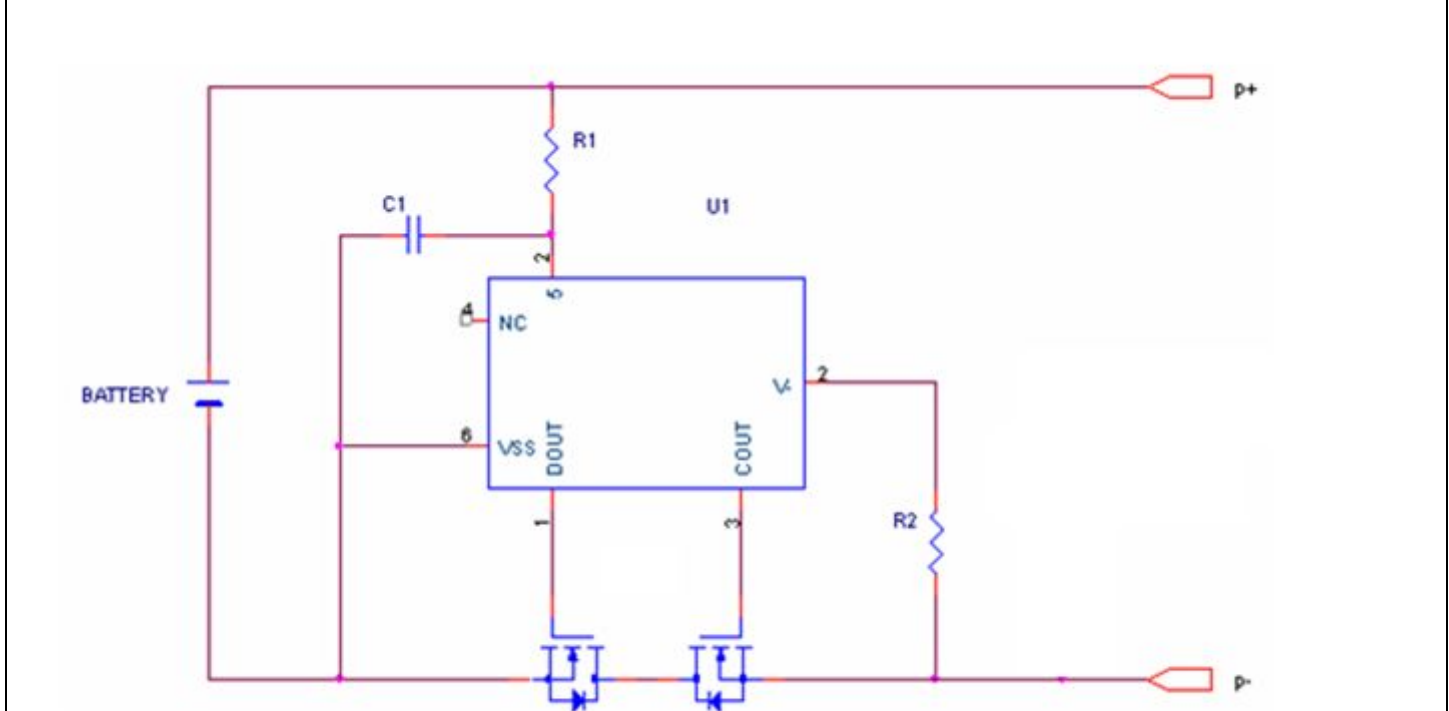
3 Electrical characteristics 电气特性

$T_{opt}=25^{\circ}\text{C}$

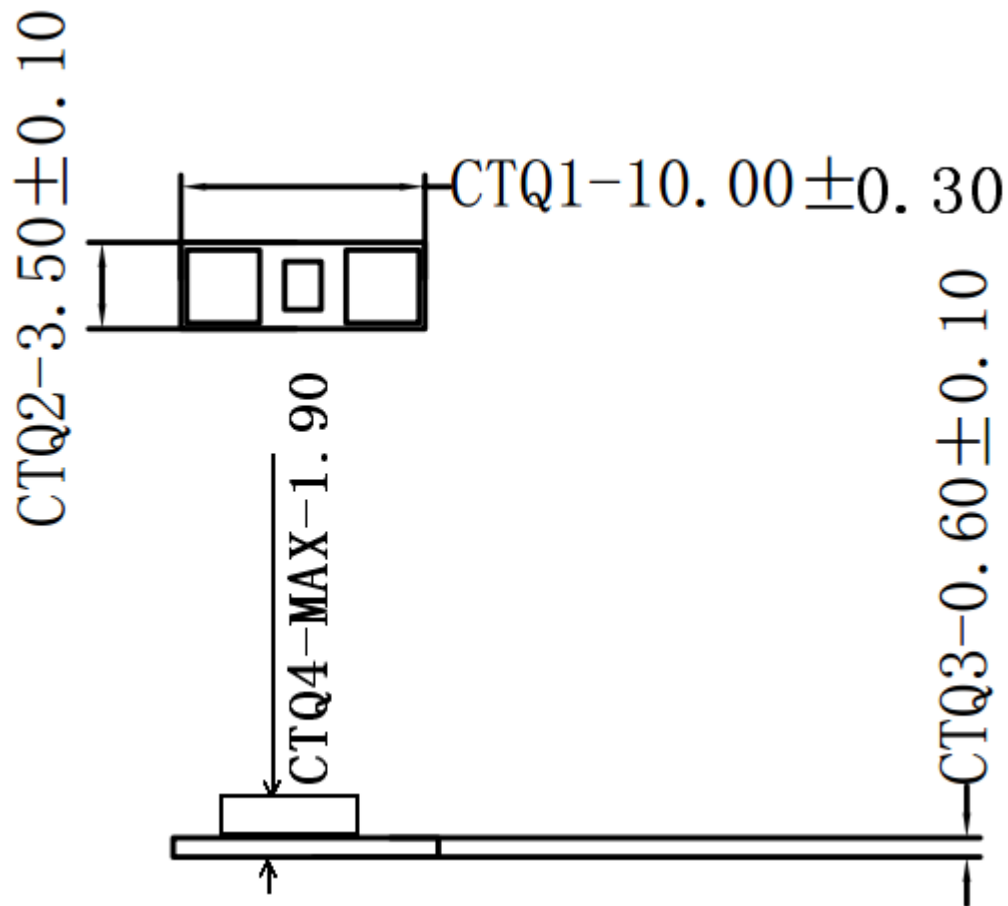
No	Item	Condition	Specification
1	过充电 Overcharge	保护电压 Detection Voltage	$4.280\pm0.025\text{V}$
2		恢复电压 Release Voltage	$4.080\pm0.025\text{V}$
3		保护延迟时间 Detection Delay Time	$0.96\sim1.40\text{S}$
4	过放电 Over Discharge	保护电压 Detection Voltage	$3.000\pm0.050\text{V}$
6		恢复电压 Release Voltage	$3.000\pm0.100\text{V}$
7		保护延迟时间 Detection Delay Time	$144\pm29\text{mS}$
8	放电过流 Over Discharge Current	放电过流保护电流 Over Current	$1.0\sim3.00\text{A}$
9		放电过流保护延时 Delay Time	$7.2\sim11.0\text{ms}$
10	短路保护	短路保护延时 Short Detection Delay Time	$220\sim380\mu\text{s}$
11		恢复条件 Release Conditions	断开负载/Cut Off Load
12	自耗电 Normal Current Consumption	静态电流消耗 Normal Current Consumption Of PCM	$\text{Max}7.00\mu\text{A}$
13	建议工作条件 Suggest Working Conditions	建议最大持续充//放电电流 Max Continuous Charge/Discharge Current	0.8A
14		建议工作温度 Suggest Working Temperature	$-20^{\circ}\text{C}\sim60^{\circ}\text{C}$
15	内阻 IR Resistance	PCM 内阻 IR Of PCM	$\leq65\text{m}\Omega$
16	PCM 尺寸 The Size Of Final PCM	长度 The Length Of Final PCM	$10.00\pm0.15\text{mm}$
17		宽度 The Width Of Final PCM	$3.500\pm0.10\text{mm}$
18		厚度 The Thickness Of Final PCM	$\text{MAX:}1.90\text{mm}$

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NO.	Location 元件编号	Part name 元件名称	Specification 元件规格	Pack type 封装式	Q'ty 数量
1	U1	Battery protection IC	S8261-G3J	SOT-23-6	1
2	Q1	Silicon MOSFET	SIS8205	SOT-23-6	1
3	R1	Resistance	SMD 470Ω±5%	0402	1
4	R2	Resistance	SMD 2KΩ±5%	0402	1
5	C1	Capacitance	SMD 0.1μF	0402	1



7 PCM 结构图纸/Mechanical Drawing



8 Terminal explanations

端口说明:

- 1、B+: 连接电池芯正极 Connected to the battey's positive terminal
- 2、B-: 连接电池芯负极 Connected to the battey's negative terminal
- 3、P+: 连接电池输出或充电器正极 Connected to the battey's output or the charger's positive terminal
- 4、P-: 连接电池输出或充电器负极 Connected to the battey's output or the charger's negative terminal