

Data Sheet 规格书

Product name 品名：Protection Circuit Module 保护板

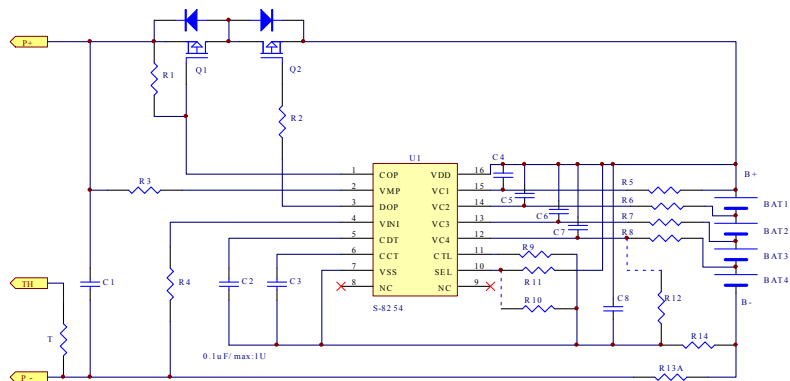
Model No 型号：PCM-L04S10-A35

For 4S 18650/18500 battery Lithium-ion/Lithium Polymer/LiFePO4 Battery Packs

适用于4S 18650/18500锂离子/锂聚合物/磷酸铁锂电池组

Items 项目		Specifications 规格	
		Lithium-ion/Lithium Polymer 锂离子/锂聚合物	LiFePO4 磷酸铁锂
Charge 充电	Charging voltage (CC/CV) 充电电压-4S	CC/CV : 16.8V (4.2V/Cell)	CC/CV : 14.4V (3.6V/Cell)
	Maximal continuous charging current 最大连续充电电流	10A	
Discharge 放电	Maximal continuous discharging current 最大持续放电电流	10A	
Low current consumption 低消耗电流	Current consumption on operation 工作时消耗电流	<30μA (B1 = B2 = B3 = B4 = 3.5 V)	
	Current consumption at power down 休眠时消耗电流	<0.1μA (B1 = B2 = B3 = B4 = 1.5 V)	
Cell-balance 电量平衡	Cell-balance detection voltage 电量平衡检测电压	/	/
	Cell-balance release voltage 电量平衡解除电压	/	/
	Cell-balance current 电量平衡电流	/	/
Over-charge 过充电	Overcharge detection voltage 过充电检测电压	4.250 ± 0.025 V	3.900 ± 0.025 V
	Overcharge release voltage 过充电解除电压	4.150 ± 0.050 V	3.800 ± 0.050 V
	Overcharge delay time 过充电检测延迟时间	0.3 ~ 2S (CCT=0.1U)	
Over-discharge 过放电	Overdischarge detection voltage 过放电检测电压	2.50 ± 0.080 V	2.00 ± 0.080 V
	Overdischarge release voltage 过放电解除电压	3.00 ± 0.100 V	2.50 ± 0.100 V
	Overdischarge delay time 过放电检测延迟时间	30 ~ 200ms (CDT=0.1U)	
Discharge overcurrent 放电过流	Discharge overcurrent detection voltage 放电过流检测电压	0.10 ± 0.025 V	0.15 ± 0.025 V
	Discharge overcurrent delay time 放电过流检测延迟时间	3 ~ 20ms (CDT=0.1U)	
	Discharge overcurrent protection 放电过电流保护	25±5A(adjustable)	
	Release condition 释放状态	Cut-off-load 切断负载	
Short-circuiting protection 短路保护	Load short-circuiting detection voltage 负载短路检测电压		
	Detection condition 检测条件	Exterior short circuit 外部短路	
	Load short-circuiting detection delay time 负载短路检测延迟时间	200 ~ 800μs	
	Release condition 释放状态	Cut-off-load 切断负载	
Internal resistance 内阻	Static Drain-Source On-Resistance 在静态漏源电阻	<50mΩ (B+ to P+)	
Temperature 温度	Wide range of operation temperature宽工作温度范围	- 40 ~ + 85 °C	
	Storage Temperature Range 存储温度范围	-40 ~ +125°C	
Dimension 尺寸		L64*W35*T4mm	

Schematic diagram 原理图：



S-8254 Series

型 号 Model	过充电检测电压 Overcharge detection voltage	过放电检测电压 Overdischarge detection voltage	过电流检测电压 Overcurrent detection voltage
S-8254AAAF-TB-G	4.35V± 0.025 V	2.0V± 0.080 V	0.3V±0.025 V
S-8254AAFFT-TB-G	4.35V± 0.025 V	2.4V± 0.080 V	0.2V±0.025 V
S-8254AAJFT-TB-G	4.35V± 0.025 V	2.4V± 0.080 V	0.15V±0.025 V
S-8254AAKFT-TB-G	4.35V± 0.025 V	2.7V± 0.080 V	0.2V±0.025 V
S-8254AAPFT-TB-G	4.28V± 0.025 V	3.0V± 0.080 V	0.15V±0.025 V
S-8254AAGFT-TB-G	4.275V± 0.025 V	2.3V± 0.080 V	0.13V±0.025 V
S-8254AABFT-TB-G	4.25V± 0.025 V	2.0V± 0.080 V	0.3V±0.025 V
S-8254AANFT-TB-G	4.25V± 0.025 V	2.5V± 0.080 V	0.1V±0.025 V
S-8254AAVFT-TB-G	4.25V± 0.025 V	2.7V± 0.080 V	0.2V±0.025 V
S-8254AAWFT-TB-G	4.25V± 0.025 V	3.0V± 0.080 V	0.1V±0.025 V
S-8254AAQFT-TB-G	3.9V± 0.025 V	2.3V± 0.080 V	0.3V±0.025 V
S-8254ABAFT-TB-G	3.9V± 0.025 V	2.0V± 0.080 V	0.15V±0.025 V

