

原材料承认书

SPECIFICATION FOR APPROVAL

客户名称/customer name	
产品型号/ Model	TDT-3S-8085 20A NMC
产品规格/ Specification	L56*W45*T4mm MAX
主要器件 Main configuration	IC: DW01/SOT23-6 MOS: 3080/TO252
PCB工艺/PCB	Double layer, Green oil, Solder coating, ROHS
Document NO.	
版本/ Rev	00

部门 Department	编写(R&D) Registered	审核 (R&D) Checked	复核 (Quality) Deliberation	批准(R&D) Approved
签名/Sign				
日期/DATE				

客户确认 Customer Approve			
部门 Department	R&D	Quality	Approved
签名/Sign			
日期/DATE			
文件有效期限 Approved date	有限期限为 1 年 Period of validity 1 year		

在文件到期前一个月如果双方都对此文件都没有异议，此文件将自动延续有效期1年

If both sides have no dissidence in one month before the maturity of the Approved. It will be considered valid automatically for a one year period.

公司名称 The name of company	深圳市拓达通电子有限公司	电话 TEL	15013560873
公司地址 Address	深圳市光明区白花社区博林泰工业园7楼		

1. 产品变更履历/Product Modified Record List

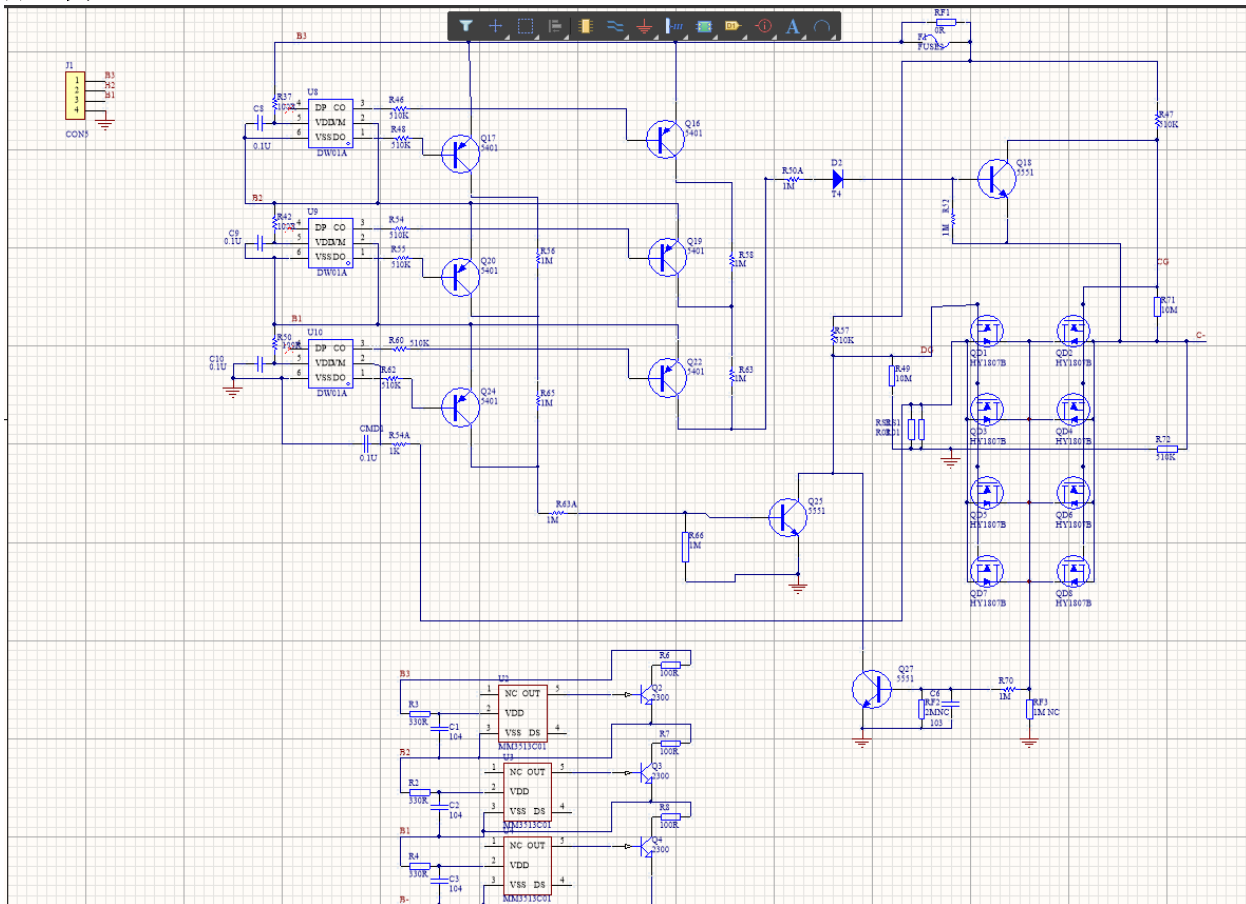
产品变更履历/ Product Modified Record List			
日期/ Date	变更点描述/ Problem and Solution	责任人/ Principal	
2019.5.8	1. 新开发		

2. 产品规格/ Produce Specification

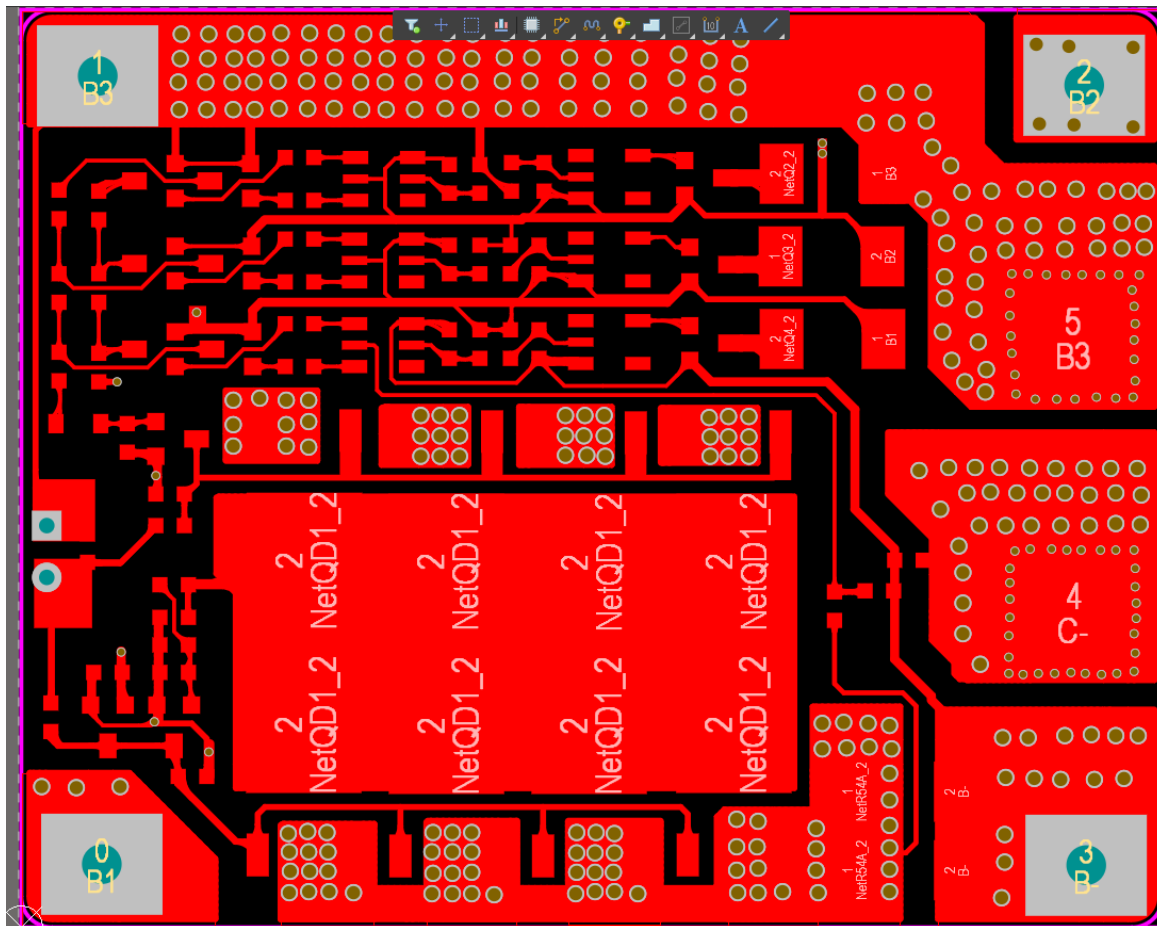
		技术规范 TECHNICAL SPECIFICATION FOR APPROVAL	Rev	0.1
			Date	
			Page	1
No	Item	Condition	Specification	
1	输入电压/input Voltage	B+/B-间输入电压/input Voltage B+ to B-	-0.3~+30V	
2	过充电 Overcharge	保护电压/Detection voltage/1CELL	4.30±0.05V	
3		恢复电压/ Release voltage/1CELL	4.10±0.1V	
4		保护延迟时间/ Detection delay time	0.04~0.16S	
5	过放电 Over discharge	保护电压/Detection voltage/1CELL	2.4±0.1V	
6		恢复电压/ Release voltage/1CELL	3.00±0.1V	
7		保护延迟时间/ Detection delay time	40.00~120.00ms	
8	放电过流 Over discharge current	放电过流保护电流/Over current	68~82A	
9		放电过流保护延时/delay time	7.00~20.00ms	
10	短路保护 Short detection	短路保护延时/ Short detection delay time	100~350us	
11		恢复条件/Release Conditions	断开负载/Cut off load	
12	充电温度保护 Charge temperature protection	充电时的温度保护阈值/ Charge temperature protection	无/NO	
13	放电温度保护 Discharge temperature protection	放电时的温度保护阈值/ Discharge temperature protection	75℃	
14	自耗电 Normal current consumption	工作状态自耗电 Normal current consumption of PCM	Max 60.00uA	
15	OV 充电/0V charger	是否允许 0V 充电/allowed 0V change	YES	
16	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	20A	
17		建议工作温度/suggest working temperature	-20℃~+60℃	
18	内阻/IR resistance	PCM 内阻/ IR of PCM	≤70.00 mΩ	
19	NTC阻值	NTC 阻值(20~40)℃	无	
20	PCM 尺寸 The size of final PCM	长度/The length of final PCM	56±0.15mm	
21		宽度/The width of final PCM	45±0.1mm	
22		厚度/ The thickness of final PCM	MAX:4mm	

21	外观 Appearance	1) 没有元器件的破损/Nothing part deflection 2) 所有焊点良好/The status of solder is all right 3) PCM 没有翘曲/PCM will not crook 4) 符合拓通达的出货外观标准 Settle for TDT Module appearance standard
22	可靠性测试 Reliability test	1) ESD 测试: 接触 4KV 空气 8KV / ESD test : contact 4KV Air 8KV

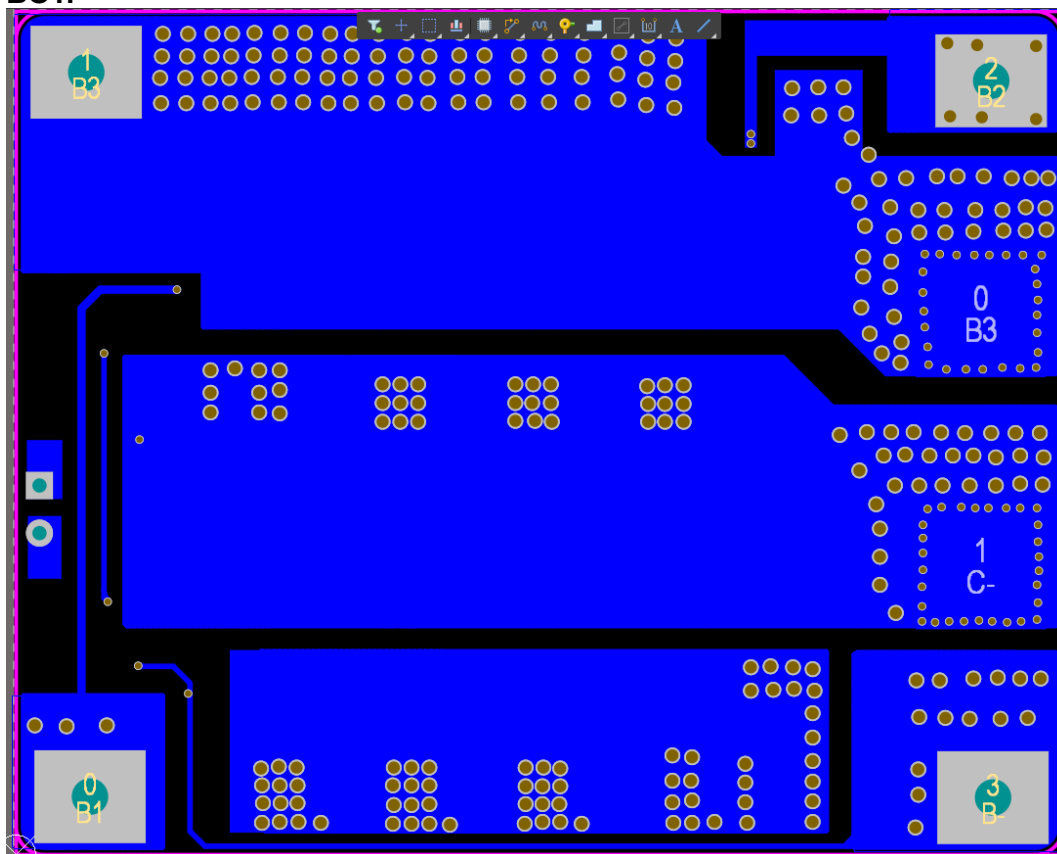
原理图:



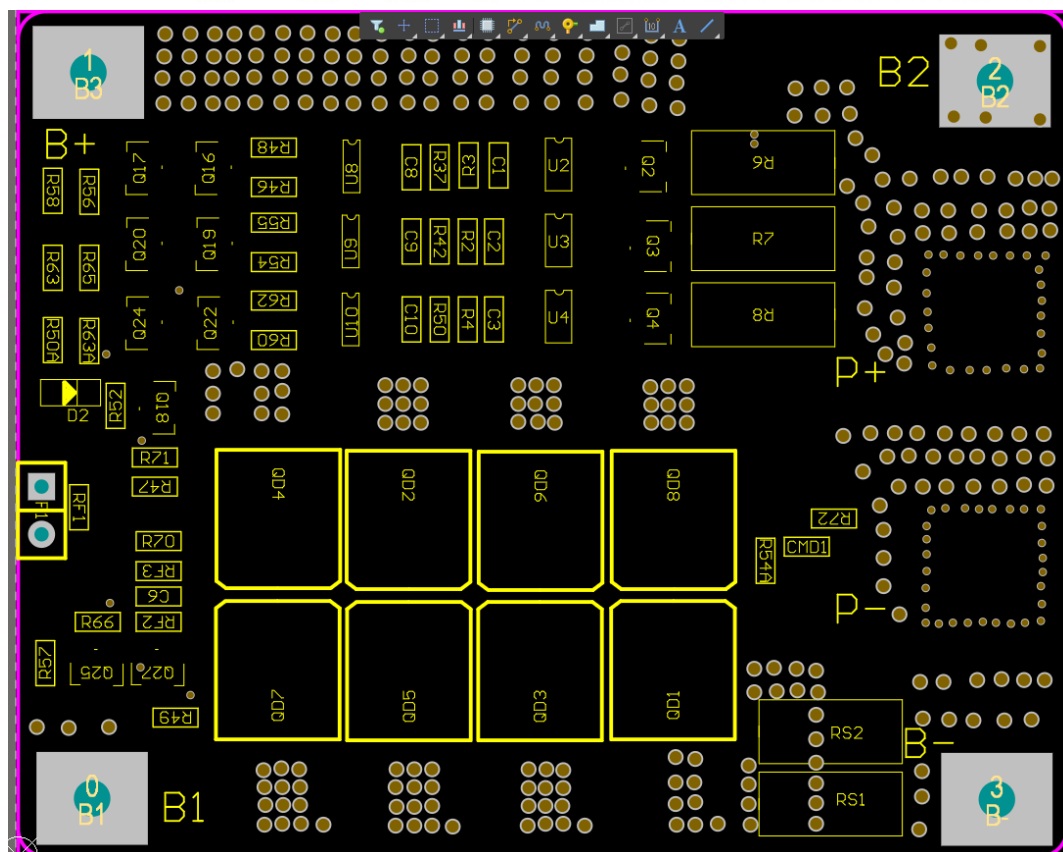
TOP:



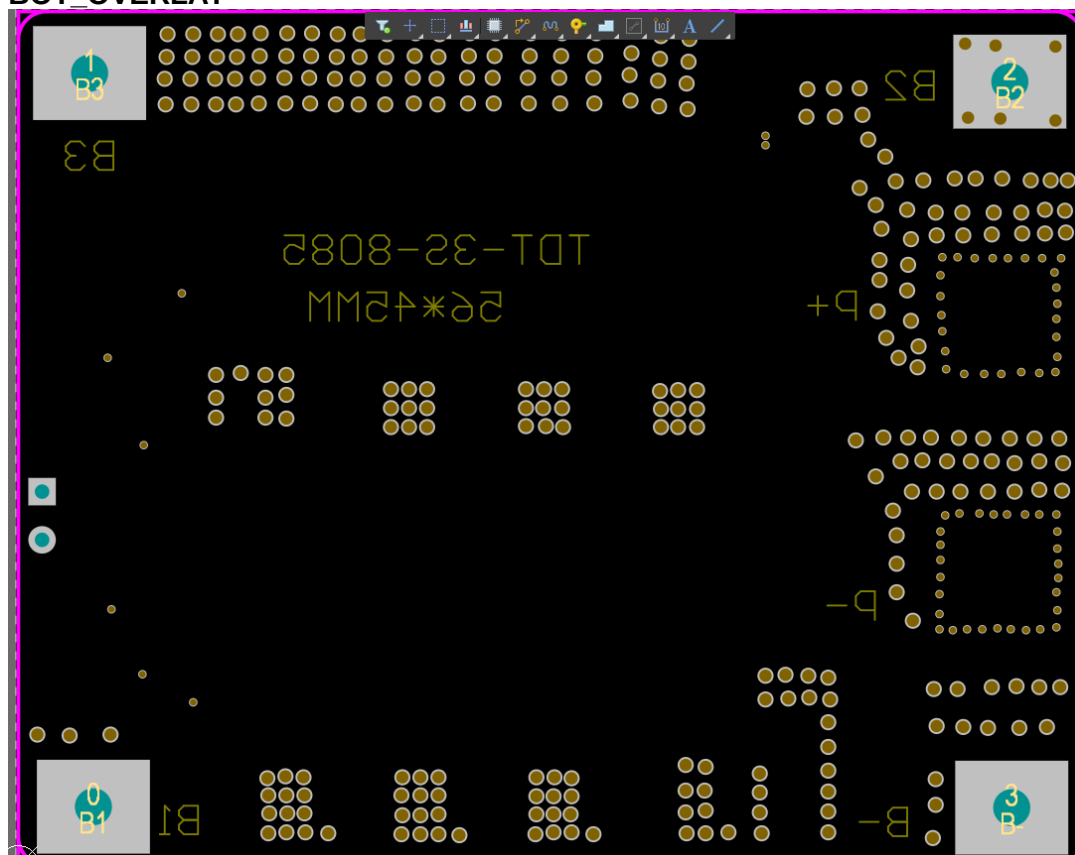
BOT:



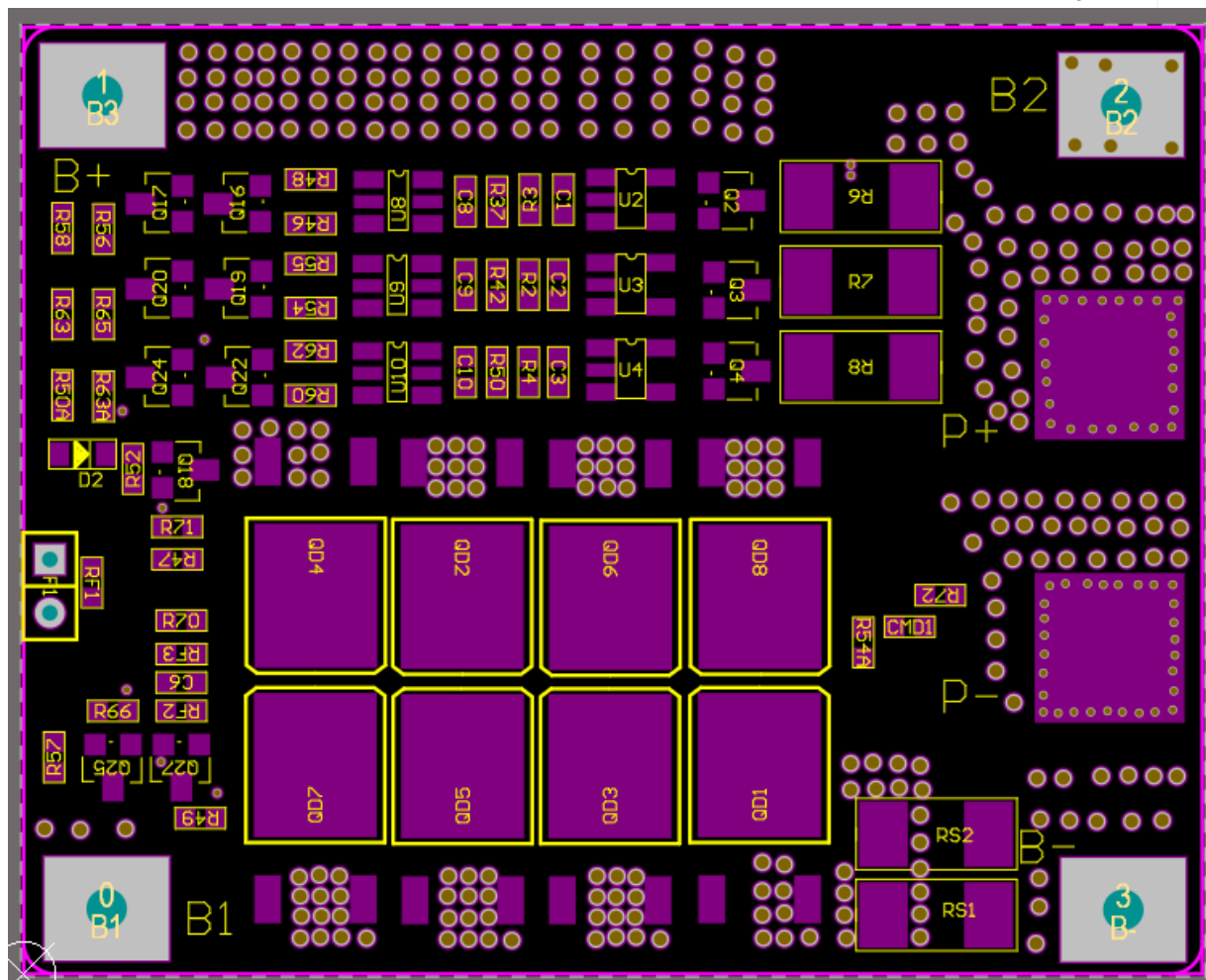
TOP_OVERLAY



BOT_OVERLAY



接线说明:



B- connect battery's B- 0V
 B1 connect battery cell's B1+/B2- 3.7V
 B2 connect battery cell's B2+/B3- 7.4V
 B+ connect battery's B+ 11.1V
 B+ connect load+ /charger+
 P- connect load-/charger-