Protection Circuit Module Specifications For 3.7V Li-ion/Li-Po Battery Pack			
Model：PCB-S1A3-I2C IC（BQ27541）Single Cell Li-Ion Battery Fuel Gauge			
No.	Test item （Test at normal temperature 25±2℃ and relative humidity≤90%）		Criterion
1	Communication Interface		HDQ or I2C
2	Capacity	Designing battery capacity（PCM）	
3	Voltage	Charging voltage	DC: 4.2V CC/CV
4	Current	Normal operating-mode current：Gas Gauge in NORMAL mode,ILOAD > Sleep Current	150 uA
		SLEEP operating-mode current：Gas Gauge in SLEEP mode,ILOAD < Sleep Current	80 uA
		FULL SLEEP operating-mode current：Gas Gauge in FULL SLEEP mode,ILOAD < Sleep Current	25 uA
		Maximal continuous charging current	3A
		Maximal continuous discharging current	3A
5	Over charge Protection	Over charge detection voltage	4.25±0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.05±0.05V
6	Over discharge protection	Over discharge detection voltage	2.5±0.07V
		Over discharge detection delay time	10—30mS
		Over discharge release voltage	3.0±0.1V
7	Over current protection（discharge）	Over current detection voltage	0.2±0.015V
		Over current detection current	5±1A
		Detection delay time	5ms—20ms
		Release condition	Cut load
8	Short protection	Detection condition	Exterior short circuit
		Detection delay time	100-600us
		Release condition	Cut load
9	Resistance	Protection circuitry	≤50mΩ
10	Temperature	Operating Temperature Range	-40～+85℃
		Storage Temperature Range	-40～+125℃

B+：battery+

B-：battery-

SDA：Serial Data interface

SCL：Serial Clock interface

P+：charge+/discharge+

P-：charge-/discharge-

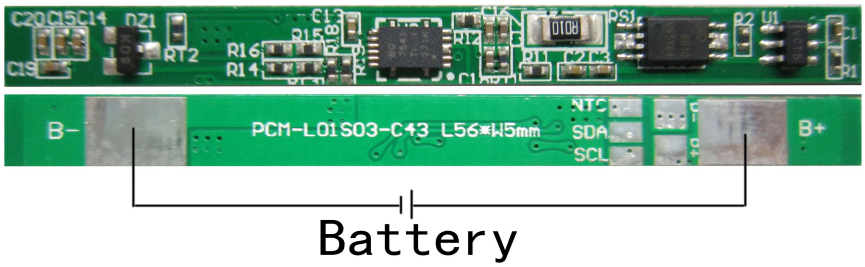
NTC：10K

L56*W5*T3mm

P+=Charge+/Discharge+

P-=Charge-/Discharge-

Size:L56*W5*T2.5mm



Battery