

Protection Circuit Module Specifications For 3.7V Li-ion/Li-Po Battery Pack

Model: PCB-310A1 (1S)

No.	Test item		Criterion
1	Voltage	Charging voltage	DC:4.2V CC/CV
2	Current	Current consumption	$\leq 10 \mu A$
		Maximal continuous Discharging current	2.0A
3	Over charge Protection	Over charge detection voltage	4.275 V \pm 0.025V
		Over charge detection delay time	0.5S—2S
		Over charge release voltage	4.175 \pm 0.05V
4	Over discharge protection	Over discharge detection voltage	2.30 V \pm 0.05V
		Over discharge detection delay time	50—200mS
		Over discharge release voltage	2.40 \pm 0.05V
5	Over current protection	Over current detection voltage	0.1v \pm 0.015V
		Over current detection current	2.5 \pm 0.5A
		Detection delay time	5ms—20ms
		Release condition	Cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Cut load
7	Resistance	Protection circuitry	$\leq 50m \Omega$
8	Temperature	Operating Temperature Range	-40~+85 $^{\circ}$ C
		Storage Temperature Range	-40~+125 $^{\circ}$ C

IC: S-8261AANMD-G2NT2G (SEIKO)

MOSFET: ECH8601 (SANYO)

