



# Protection Circuit Module

## For 3.7V Li-ion/Li-polymer Battery Pack

No.	Test item		Criterion
1	Voltage	Charging voltage	DC:4.2V CC/CV
		Balance voltage for single cell	
2	Current	Balance current for single cell	
		Current consumption for single cell	$\leq 10\mu\text{A}$
		Maximal continuous discharging current	2A, 2.5A, 3A, 6A
3	Overcharge Protection	Over charge detection voltage	$4.325\pm 0.025\text{V}$
		Over charge detection delay time	0.96S~1.4S
		Over charge release voltage	$4.075\pm 0.025\text{V}$
4	Over-discharge Protection	Over discharge detection voltage	$2.50\pm 0.05\text{V}$
		Over discharge detection delay time	115~173mS
		Over discharge release voltage	$2.9\pm 0.05\text{V}$
5	Over Current Protection	Over current detection voltage	$0.15\pm 0.025\text{V}$
		Over current detection current	$4\pm 0.5\text{A}$
		Detection delay time	5ms~15ms
		Release condition	Automatic Recovery
6	Short Protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Automatic Recovery
7	Resistance	Protection circuitry	$\leq 20\text{m}\Omega$
8	Temperature	Operating temperature range	$-40\sim +85^{\circ}\text{C}$
		Storage temperature range	$-40\sim +125^{\circ}\text{C}$

\* Characteristics subject to change without notice.