1S 3.7V 2A BMS NMC – SEEGATE CORPORATION

No	Tested Item			Criterion
1	Voltage	Charging Voltage		DC:4.2V CC/CV
		Blance Volatage for single cell		/
2	Current	Blance Current for single cell		/
		Current consumption		≤6μA
		Max continuous charging current		2A
		Max continuous discharging current		2A
3	Over charge Protection	V_{DET1}	Over charge detection voltage	4.3±0.05V
		tV_{DET1}	Over charge detection delay time	1-200ms
		VREL1	Over charge release voltage	4.1±0.05V
4	Over discharge protection	VDET2	Over discharge detection voltage	2.5±0.10V
		Tvdet2	Over discharge detection delay time	1-100ms
		VREL2	Over discharge release voltage	2.90±0.10V
5	Over current protection	VDET3	Over current detection voltage	0.15±0.03V
		IDP	Over current detection current	4A
			Release condition	Cut load
			Overcurrent detection delay time	1-20ms
6	Short protection		Detection condition	Exterior short circuit
			Release condition	Cut short circuit
			Short circuit current detection delay time	1-500us
7	Interior resistance	RDS	Main loop electrify resistance	VC=4.2V, R_{DS}≤60mΩ
	Current consumption	IDD	Current consume in normal operation	≤6μA
8	Temperature	Operating Temperature		-45℃ -- +65℃
		Storage Temperature		-45℃ -- +85℃

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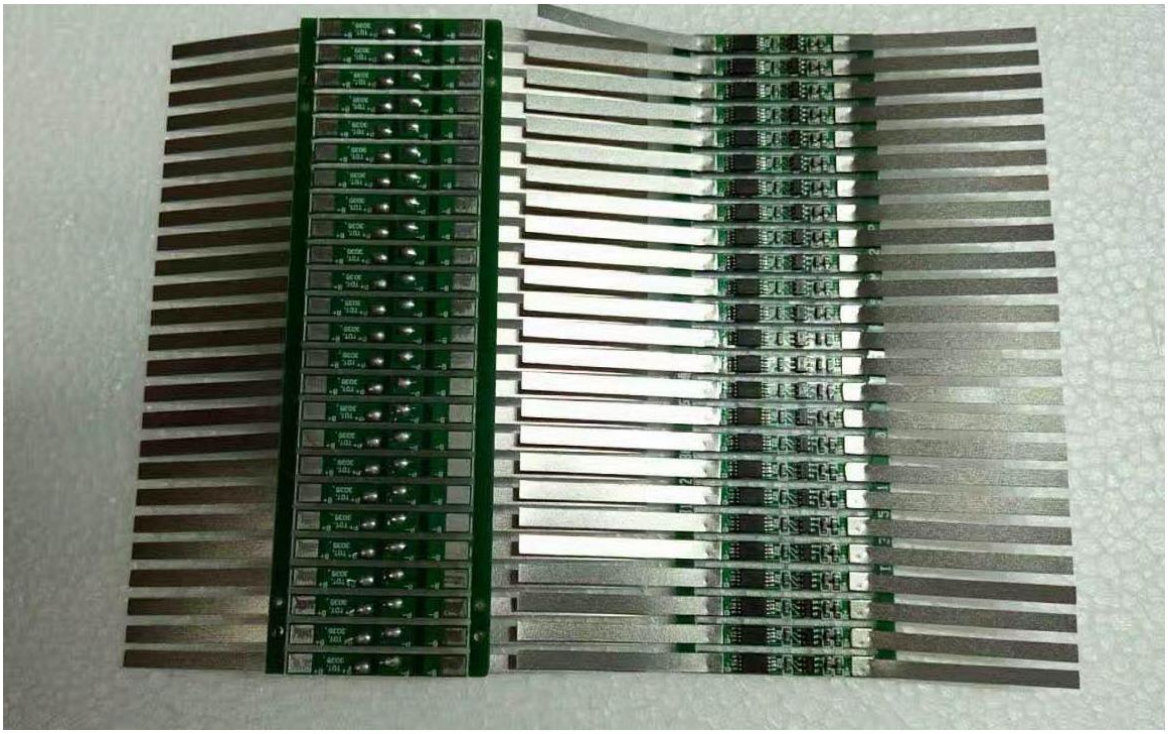
BMS IMAGE



BMS CONNECTION DIAGRAM