

**A 3S 3.5A working Lithium Ion Protector with 10k NTC in a skinny profile. Solder pad interconnect.**



Symbol	Conditions	Toc & Tod is per cell	Limits Described at 25C	Min.	Typ.	Max.	Unit
Vabs.	Absolute applied voltage with respect to P+			-0.3		24	V
Icharge1	Maximum charge when Vbat <8.4					1	A
Voc	Overcharge voltage rising, subject to delay Toc			4.325	4.35	4.375	V
Vocebl	Fall back from Voc to release overcharge inhibit			4.05	4.15	4.25	mV
Toc	Time delay on rising voltage exceeding limit to operate Voc			0.6	1	1.8	s
Vod	Overdischarge voltage falling, subject to delay Tod			2.2	2.3	2.4	V
Tod	Overdischarge voltage on falling, subject to time Tod			0.7	1	1.8	s
Vodenb	Overdischarge, Charger resettable or Vcell rise to limit				3		V
Iload1	Excess discharge current limit subject to loc1. Working load 3.5A continuous			3.6	5	6	A
Toc1	Time delay excess load current exceeding limit Iload1, 1A to 8A step			18	27	40	ms
Iload2	Short circuit current, greater than, subject to time delay Toc2				30		A
Toc2	Time delay short circuit current exceeding limit Iload2				3	5	ms
Irst	Reset from Iload1 or Iload2; charger or remove load				20		Mohms
Vop	Operating voltage range			2		20	V
Iop	Normal quiescent current				15	25	uA
Isleep	Sleep mode current on low bat					1	uA
Icont	Maximum continuous load at ambient 50C					2.5	A
Rloop	Loop resistance at 1A load excluding battery			65		90	mohms
Th	10K NTC 3% at 25C, fro beta contact factory				10		Kohms

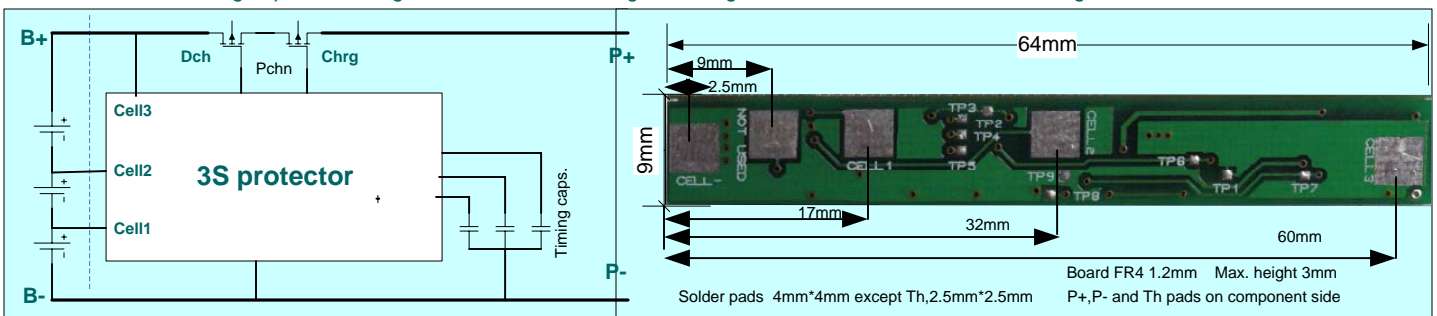
**ASSEMBLY:** Connect in order B-, B+, Cell1 then Cell2, Th if required, finally P- and then P+ **CAUTION- Avoid short circuiting cell connections**

**INITIALIZE:** Momentarily connect a valid charge source, or a 15V to 18V DC supply to P+ w.r.t P- via 2K to 5K series resistor

**DATA :** Vecture operates a policy of continual improvement, please check for latest data.

**SAMPLES:** Are available for qualified customers

**OPERATION:** Overcharge operates charge mosfet off, undervoltage discharge mosfet off, excess current discharge mosfet off



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Product warranted for 1 year.

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Not to be used in life support applications