



Perpa Ticaret Merkezi A Blok No:19
Okmeydanı-Şişli/İSTANBUL
Tel: 444 8 745 Fax: 0212 251 94 33

Model : 12M Li-ion/Li-Po PCM 3.7V (1 Cell) 3 A Sıcaklık Çıkışlı Lithium Devre



NO: 900.600.501.113

3.7V 3A 1 Cell Protection Circuit

1. Electrical Characters

T_{opt}=25°C

Item	Symbol	Content	Criterion
Charging/Discharging current		Max. Charging Current	3A
		Max. Discharging Current	3A
Overcharge Protection	VDET1	Over Charging Protect	4.20±0.05V
	tVDET1	Overcharge Delay Time	1.2S (MAX)
	VREL1	Overcharge Release Voltage	4.10±0.05V
Over discharge Protection	VDET2	Over Discharging Protect	2.7V±0.1V
	tVDET2	Over discharge Delay Time	144ms (MAX)
	VREL2	Over discharge Release Voltage	3.0V±0.1V
Over Discharge Current	VDET3	Over current Protection Voltage	150±30mV
	IDP	Over Discharge Current	7.0-9.0A
	tVDET3	Detect Delay	144ms (MAX)

		Release condition	Cut load
Short Current Protection		Detection condition	Exterior short circuit
	TSHORT	Detect Delay	600 μ s (MAX)
		Release condition	Cut short circuit
Interior resistance	RDS	Main loop electrify resistance	RDS≤60mΩ
Current consumption	IDD	Current consume in normal operation	2.0-6.0uA



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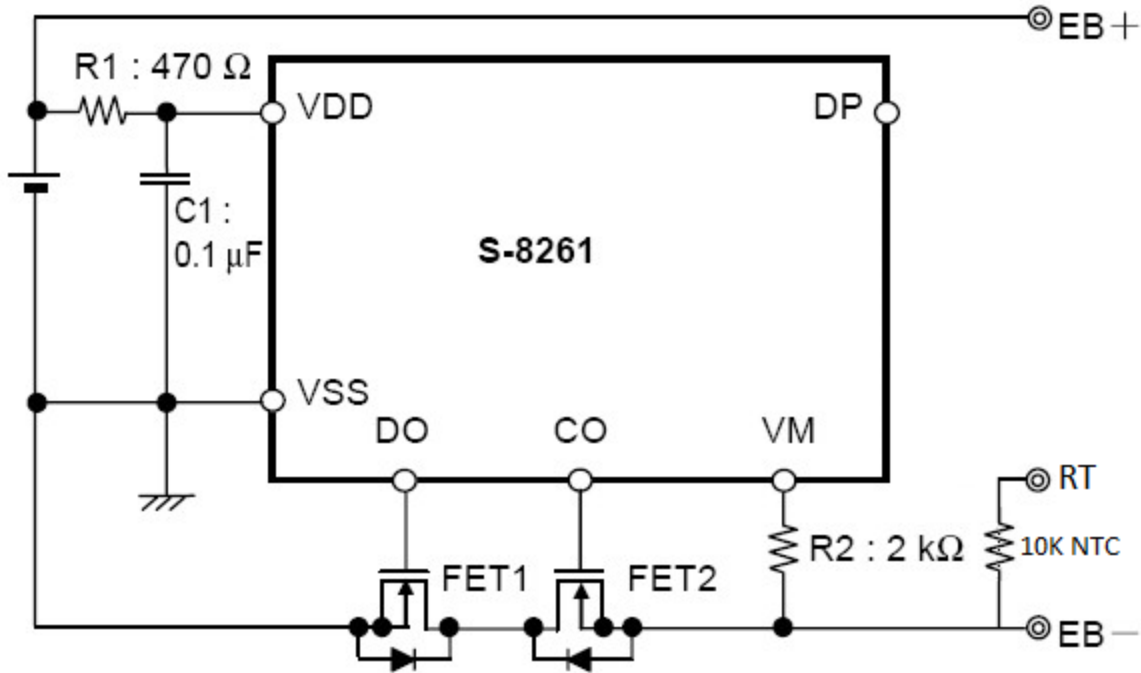
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2. BOM

1	U1	IC	S-8261ABPMD-G3PT2x	SOT-23-6	1	
2	Q	MOSFET	8025A	SOT-23-8	3	
3	R1	Resistance	SMD 470 $\Omega \pm 5\%$	0603	1	
4	R2	Resistance	SMD 2K $\Omega \pm 5\%$	0603	1	
5	C1	Capacitance	0.1 μF -20%/80%	0603	1	
6	RT	Thermistors	NTC Thermistor 10k	0603	1	NCP18XH103J03RB
7	PCB	PCB	6.4 (± 0.15) * 40 (± 0.1) * 0.8 (± 0.1) mm		1	

3. Schematic Diagram





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3. Description

Symbol	Description	Symbol	Description
P+	Battery output/charging positive pole	B +	Cell positive pole
p-	Battery output/charging negative pole	B -	Cell negative pole
T	NTC output		