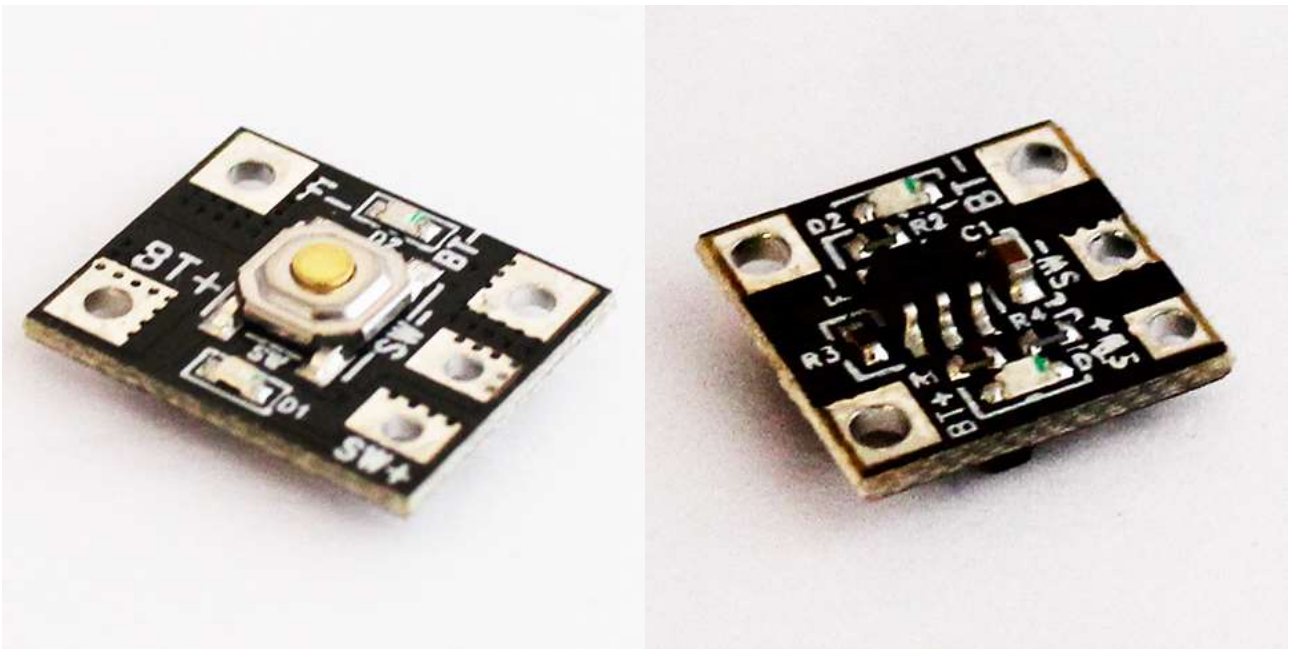


MM ClickFet v1 Datasheet



Overview

ClickFet is an un-regulated board for use with up to 4.2v battery configurations and designed to fit in the smallest space possible. It has a built in N-channel mosfet capable of up to 100A current, 2 x blue LED and an intelligent chip to provide the on / off feature, low voltage detection, timeout and short protection. ClickFet also has reverse polarity protection.

Specifications

- Dimensions: 15mm x 12mm (Switch Version) / 11mm x 10.5mm (Switchless Version)
- Mosfet:- 30v 100A LFPAK, R_{DSon} 1.35m Ω (typ), $V_{GS(th)}$ 1.46v (typ)
- Operational voltage: $3.1 \pm 0.1V$ - 4.20v
- Low voltage protection: $3.1 \pm 0.1V$
- Reverse polarity protection: Yes
- Idle current: <10uA
- Timeout Protection: Yes
- Amp Limit: 46.67A (4.2v @ 0.09 Ω)

Functions and LED Information

- Low Resistance Protection: When resistance is $0.08 \pm 0.01\Omega$ LED's flash 3 times and will not power the mosfet. This is also Short Protection.
- On/Off Function: When off, 5 clicks turns on and LEDs flash 5 times. When on, 5 clicks turns off and LED's flash 5 times.
- Low Voltage: When battery is lower than $3.1 \pm 0.1V$ LEDs flash 10 times and will not power the mosfet.
- Time Out Protection: If the mod is fired for $10 \pm 1s$ the LEDs will flash 8 times and will stop powering the mosfet.
- Reverse Polarity Protection: Yes. The board will not operate.
- In Use: When powering the mosfet the LEDs will be on.