6V < VIN < 36V

VIN

U1

CTRL_CH1   3   CTRL VIN   5

SJ2

0.3R R2

R1
0.3R

CTRL_CH1

SET   4

C1

1uF

CH1
2
1

M02PTH

D1
MBRA140

C2
2.2uF

I_led = V_thd / R_set
    V_thd = 0.1

With SJ2 open (default):
  R_set = 0.3 ohm
  I_led = ~333mA

With SJ2 soldered:
  R_set = 0.3 || 0.3 = 0.15 ohm
  I_led = ~667mA

L1
33uH

1
2

JP2

GND   SW   1

2

GND

AL8805

GND

JP1
1
2
3
4

GND

GND

open hardware

sparkfun

TITLE: femtobuck_v12

Design by:
Mike Hord

REV:
12

Date: 9/15/2015 10:20:02 AM

Sheet: 1/1