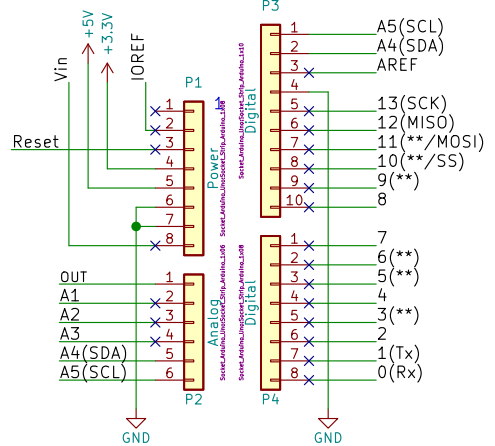
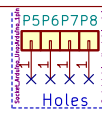


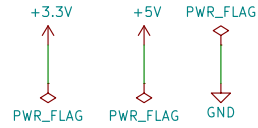
VIN=3-60V
ILOAD MAX=3A
VSENSE=50-150mV
VOCM=0-1.5V
*
 $RSENSE_TOTAL = (0.1R || 0.1R) = 0.05R$
GAIN=10
 $VOCM = ILOAD * RSENSE_TOTAL * GAIN$
 $VOCM = 3A * 0.05 * 10 = 1.5V$
 $PSENSE(1 RES) = (ILOAD / 2)^2 * RSENSE = 1.5A^2 * 0.1 = 225mW$

Shield for Arduino that uses the same pin disposition like "Uno" board Rev 3.



FID1 Fiducial
FID2 Fiducial
FID3 Fiducial

DNP=Do Not Place



current=3A
temp. amb=25°C
temp. rise=10°C
thickness=35um
width=1.36703mm

astroelectronic

Sheet: /
File: AE01.01.01.001.sch

Title: ZXCT1080 voltage output current monitor

Size: A4
KiCad E.D.A. kicad 5.1.5-52549c584ubuntu16.04.1

Date: 2020-03-02

Rev: 1
Id: 1/1