

# Ambient Light Sensor(BH1750FVI)

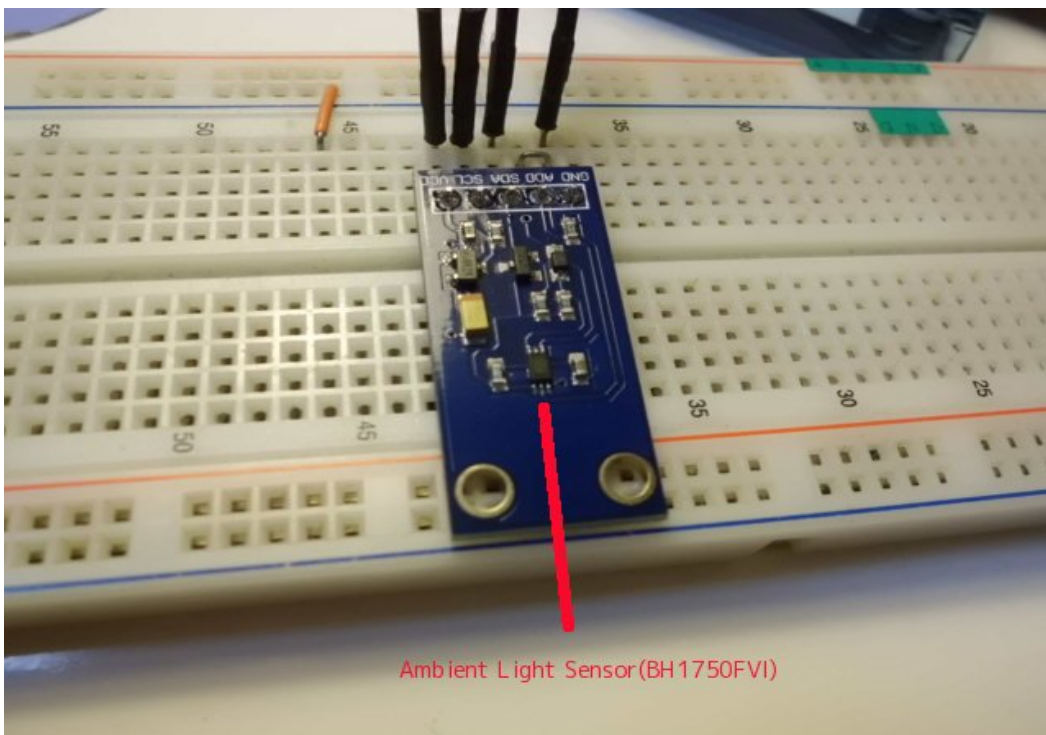
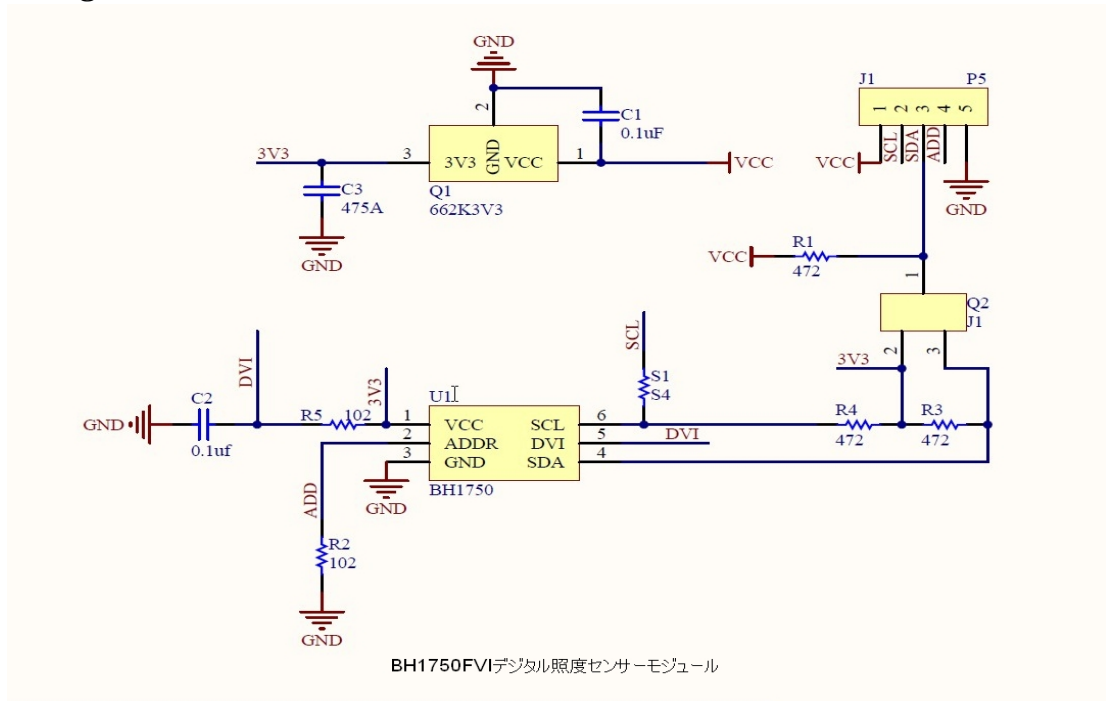
20140316

Reference;

i2c\_utility\_0.1.f

BH1750FVI\_0.1.f

Curcuit diagram of BH1750FVI module



Prop0 Cog6 ok

i2c\_detect

0 1 2 3 4 5 6 7 8 9 A B C D E F

00: -----

10: -----

20: ----- 23 ----- <--- BH1750FVI is h23.

30: -----

40: -----

50: 50 -----

60: -----

70: -----

i2c\_device:2

Prop0 Cog6 ok

Prop0 Cog6 ok

cont\_HR cont\_mode <---Continuously Hi Resolution mode

292

304

304

304

305

304

304

215

108

91

35

4

3

4

4

3

3

7

283

303

303

303

286

Prop0 Cog6 ok

cont\_HR2 cont\_mode <---Continuously Hi Resolution mode2

304

598

409

441

502

591

605

611

610

608

609

535

```

206
17
5
5
12
10
7
7
12
174
625
625
624
600
Prop0 Cog6 ok
cont_LR cont_mode<---Continuously LoResolution mode
304
304
304
304
304
112
48
28
12
4
0
0
0
0
28
308
304
304
304
304
304
304
304
304
304
304
304
Prop0 Cog6 ok

```

```

Prop0 Cog6 ok
single_HR single_mode <--- One Time Hi Resolution mode
279
Prop0 Cog6 ok
single_HR2 single_mode <--- One Time Hi Resolution mode2
557
Prop0 Cog6 ok
single_LR single_mode <--- One Time Lo Resolution mode2
268
Prop0 Cog6 ok

```

About Sensor sensitivity adjusting for page11 of BH1750FVI-e.pdf.

```
single_HR single_mode
290          <--- Normal sensitivity
Prop0 Cog6 ok
```

```
-- Changing high bit of MTreg
h44 wr_BH1750FVI err?
Prop0 Cog6 ok
```

```
-- Changing low bit of MTreg
h6A wr_BH1750FVI err?
Prop0 Cog6 ok
```

```
-- Single Hi-Resolution Mode
single_HR wr_BH1750FVI err?
Prop0 Cog6 ok          <-- maybe more than 240msec
```

```
Reading data
rd_BH1750FVI err? . cr
581          <--- 2 times of Normal sensitivity
Prop0 Cog6 ok
```