

Ambient Light Sensor(BH1750FVI)

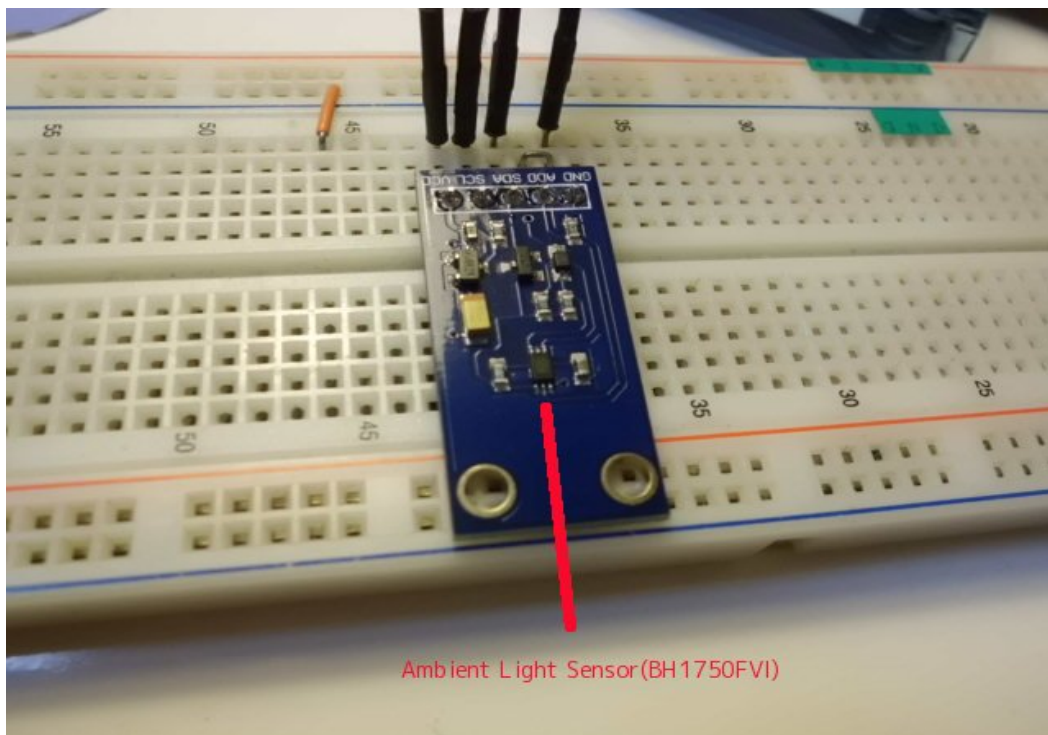
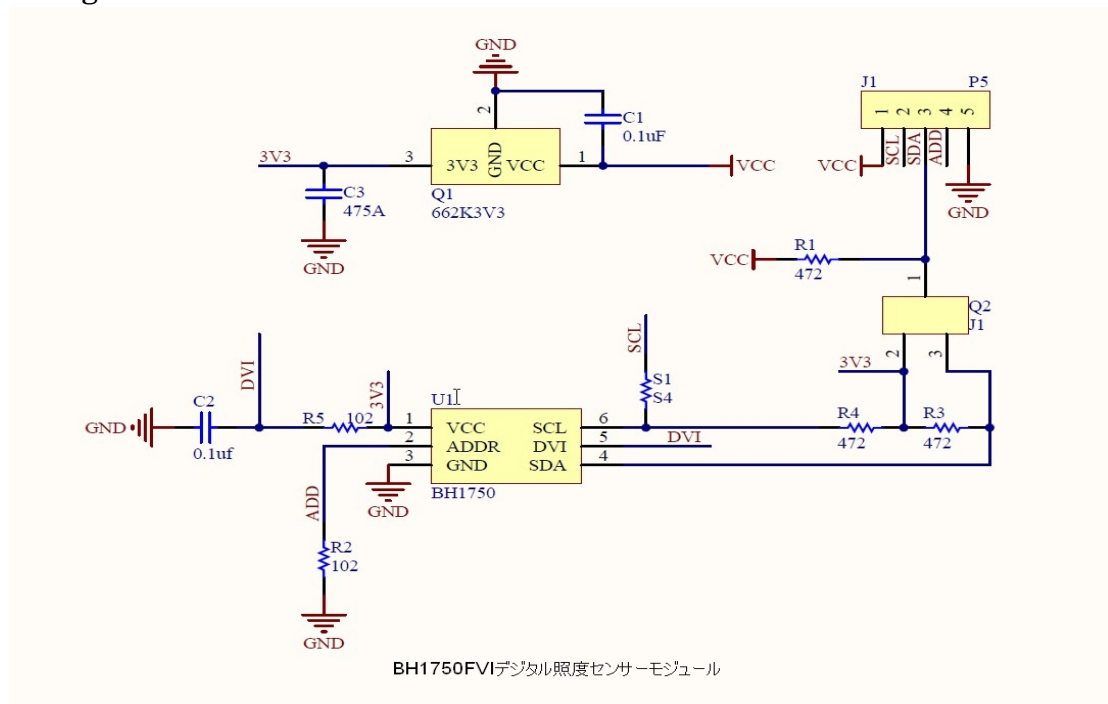
20140413

Reference;

i2c_utility_0.2.1.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 Resolusion 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 Resolusion 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 LoResolusion 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 Resolusion mode
279
Prop0 Cog6 ok
single_HR2 single_mode <--- One Time Hi Resolusion mode2
557
Prop0 Cog6 ok
single_LR single_mode <--- One Time Lo Resolusion 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
```