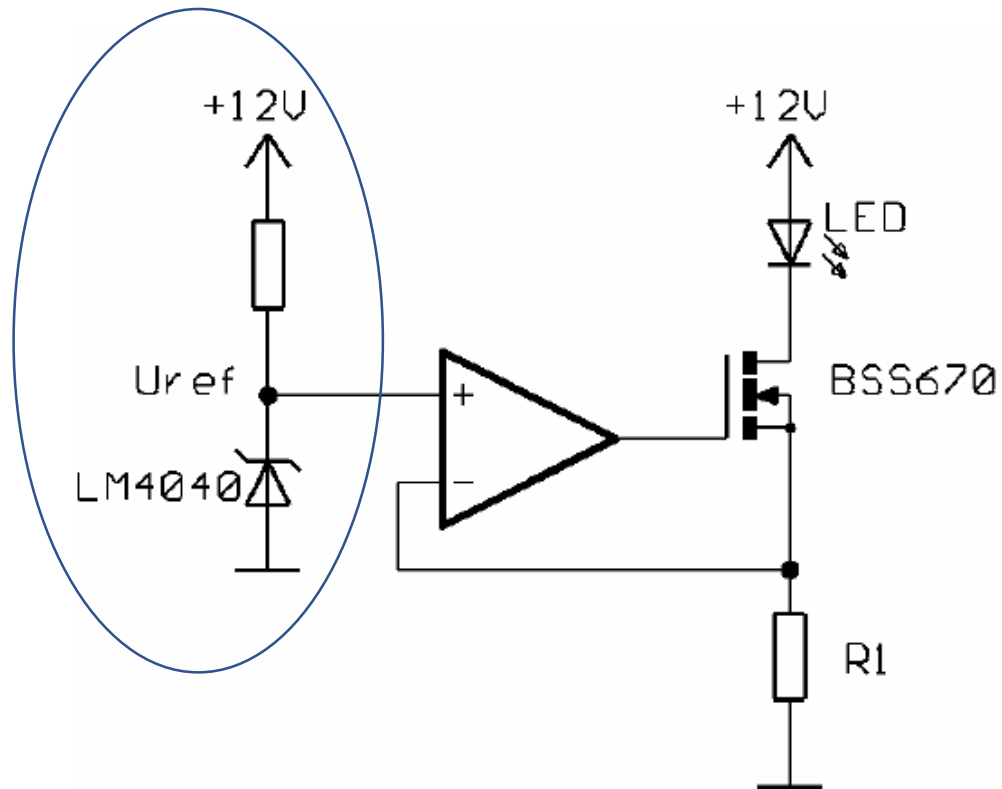


constant current circuit

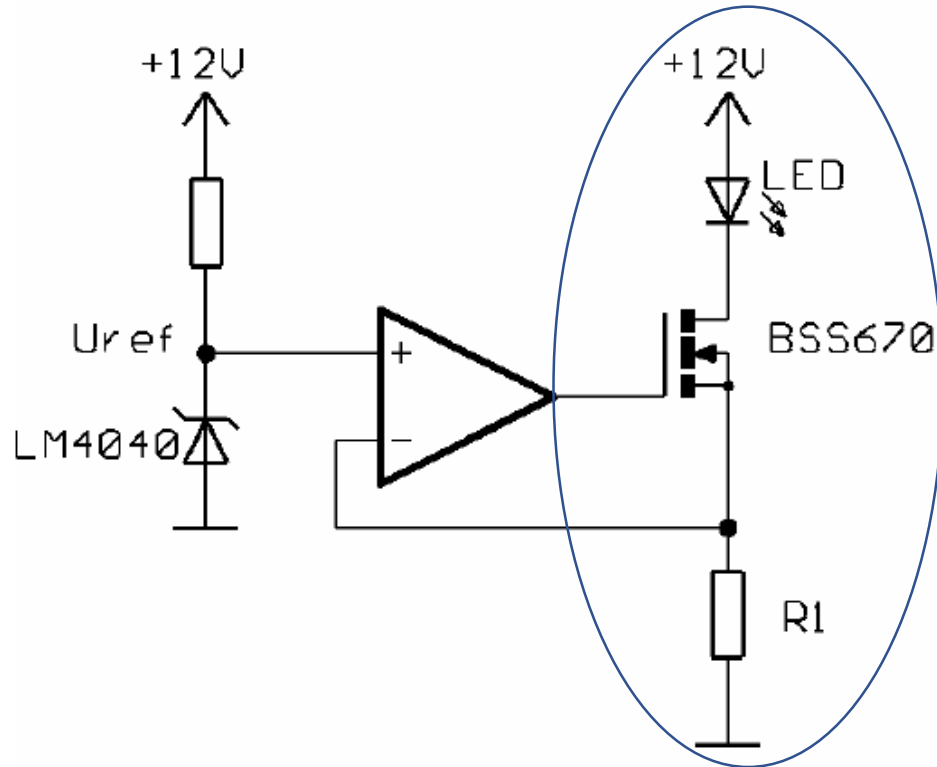
Diagram of circuit(Left side)



- Left side make constant voltage.
- The constant voltage would sent to R1.
- Uref would be determined by LM4040(Zener Diode) = 4.096V.
- $U_{ref}/R1$ is the current to led.

Circuit diagram of the constant current source

Diagram of circuit(Right side)



Circuit diagram of the constant current source

- Right side would adjust the current.
- BSS670 is a MOS-FET.
- BSS670 would control max current(=54mA)
- A Steady current of LED is 50mA which received from opamp.
- A Voltage to LED would adjusted by BSS670 which make voltage drop.

Power Supply

- The Right side would need at least 9 Voltage.
- The function generator can give up to 5 voltage.
- I'll try to connect function generator to DC power which would give a 5 Voltage.
- If I set maximum voltage, the circuit would received 0~10V.

Plan

- Soldering after buying a PCB Board and each leg which make connect between PCB Board and part.
- Making a Temperature regulator and monitor circuit.
- Making a box to complete.
- Estimate by using MPPC and PMT.

Schedule

MON	TUE	WED	THU	FRI	SAT	SUN
	3/28 Soldering current circuit and Complementing. Checking each part which I bought.	3/29	3/30	3/31	4/01	4/02
4/03	4/04	4/05 Soldering Temperature circuit and monitor circuit and Temperature circuit.	4/06	4/07	4/08	4/09
4/10 Assembling all parts	4/11	4/12	4/13	4/14	4/15	4/16
4/17 Complementing and Finishing	4/18	4/19 KPS				

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Each Spec sheet

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 - [LM4040](#)
 - [BSS670](#)
 - [AD8000](#)
- If you want to see, Click that file.