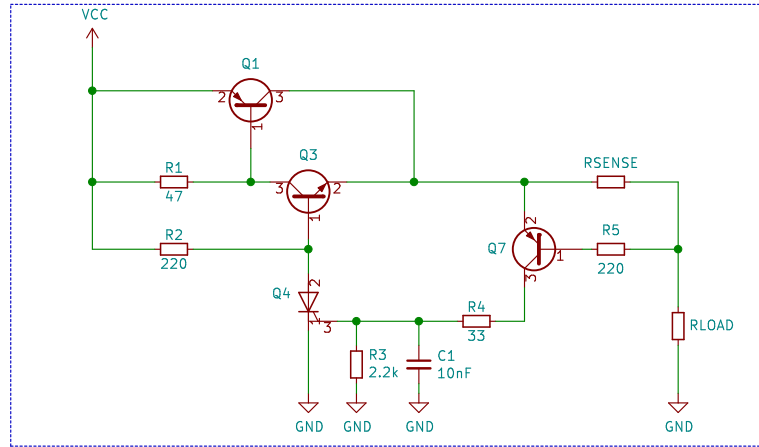


# OVER CURRENT SHUT DOWN CIRCUIT

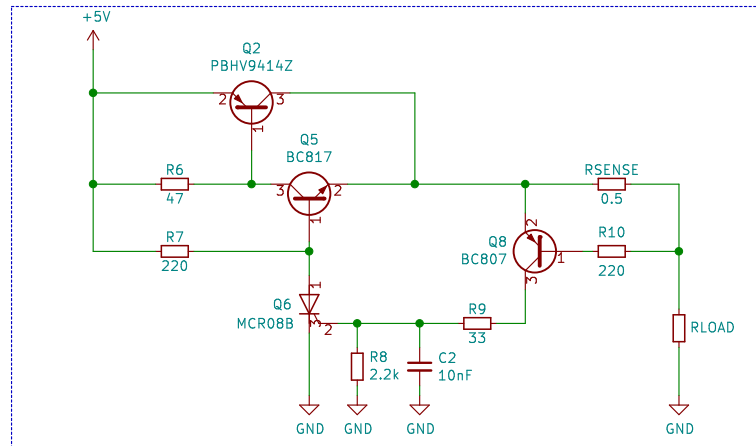


## INFORMATION

- 1- The selection of Q1 is related to the total current of the circuit and brings the advantage of power dissipation in case of high current.
- 2- Q2 using for the drive the Q1 with low currents. When current starts to flow, at the output the voltage across R1 increases and when this voltage level exceeds the VBE, Q2 turns on.
- 3- RSENSE determines the current limit with the voltage on it. When this voltage level exceeds the VBE, Q4 turns on.
- 4- RSENSE Value can calculate with the following formula,  

$$V_{BE} = I_{limit} \times R_{SENSE}$$
- 5- Q4 is a Thyristor (SCR). When the current went to limit (Q4 Turn On State), SCR shut down the circuit and if the power is not cut off and started again, the circuit will not operate until this condition occurs.

## 1A CURRENT LIMIT SHUT DOWN CIRCUIT EXAMPLE



## CURRENT LIMIT SHUT DOWN CIRCUIT

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Date: 2021-12-12

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**Rev:**

Id: 1/1