

071305T4ELC

**ELECTRONICS ENGINEERING LEVEL 5**

**ENG/OS/ET/CR/02/5/A**

**Install Power Supply Systems**

**March/April 2025**



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

**PRACTICAL ASSESSMENT**

**Time: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE:**

1. You are required to perform the following tasks.

**TASK 1:** Mount and solder the circuit shown in Figure 1 on a strip board.

**TASK 2:** Power the circuit, measure voltages at the following test points and record your results:

- i) TP 1
- ii) TP 2

**TASK 3:** Using an oscilloscope observe and draw the waveforms at the following test points:

- i) TP1;
- ii) TP2.

2. You have been provided with the following resources for the practical tasks:

- i) Step-down Transformer 12V
- ii) 4 diodes
- iii) Capacitor (3300 $\mu$ F, 25V)
- iv) Capacitor (0.1 $\mu$ F)
- v) Resistor (470 $\Omega$ )
- vi) Resistor (1K $\Omega$ )
- vii) Transistor (BC108)
- viii) Zener diode (5V)

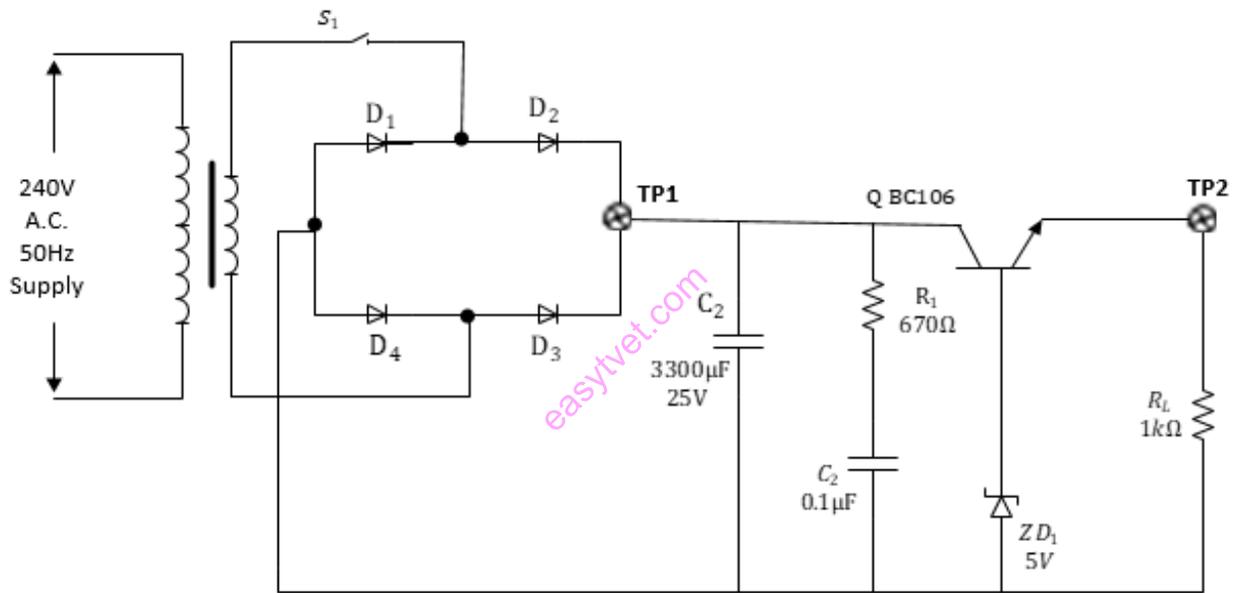


Figure 1

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