

PROJECT NAME : VOLTAGE TRIPLER CIRCUIT USING DIODE AND CAPACITORS

Group Member

Intake : 50

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Intake : 42

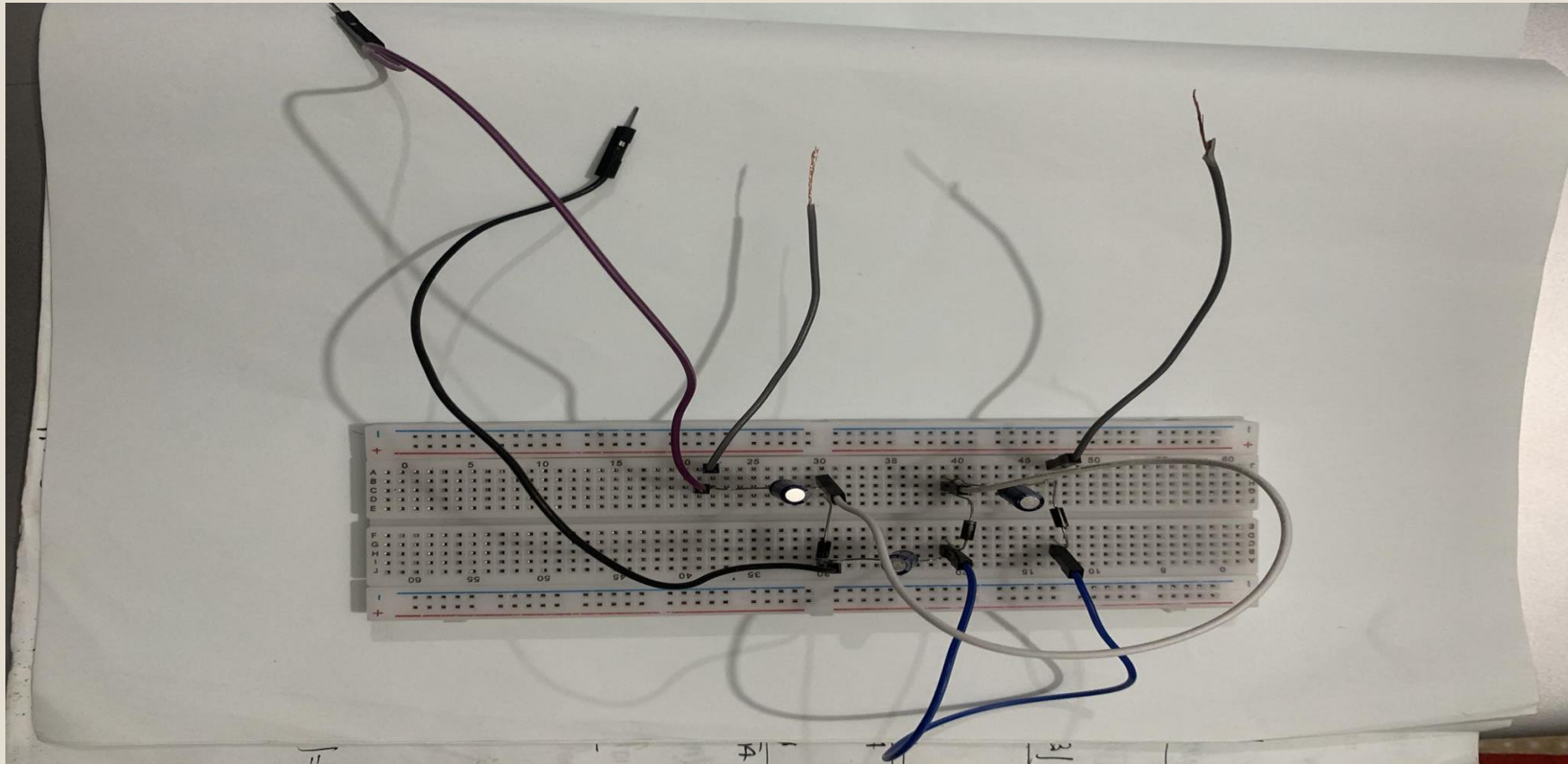
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Project Name : Voltage Tripler Circuit Using Diode and Capacitors

Instruments:

1. Bread Board
2. Capacitors
3. Diodes
4. Jumping Wire

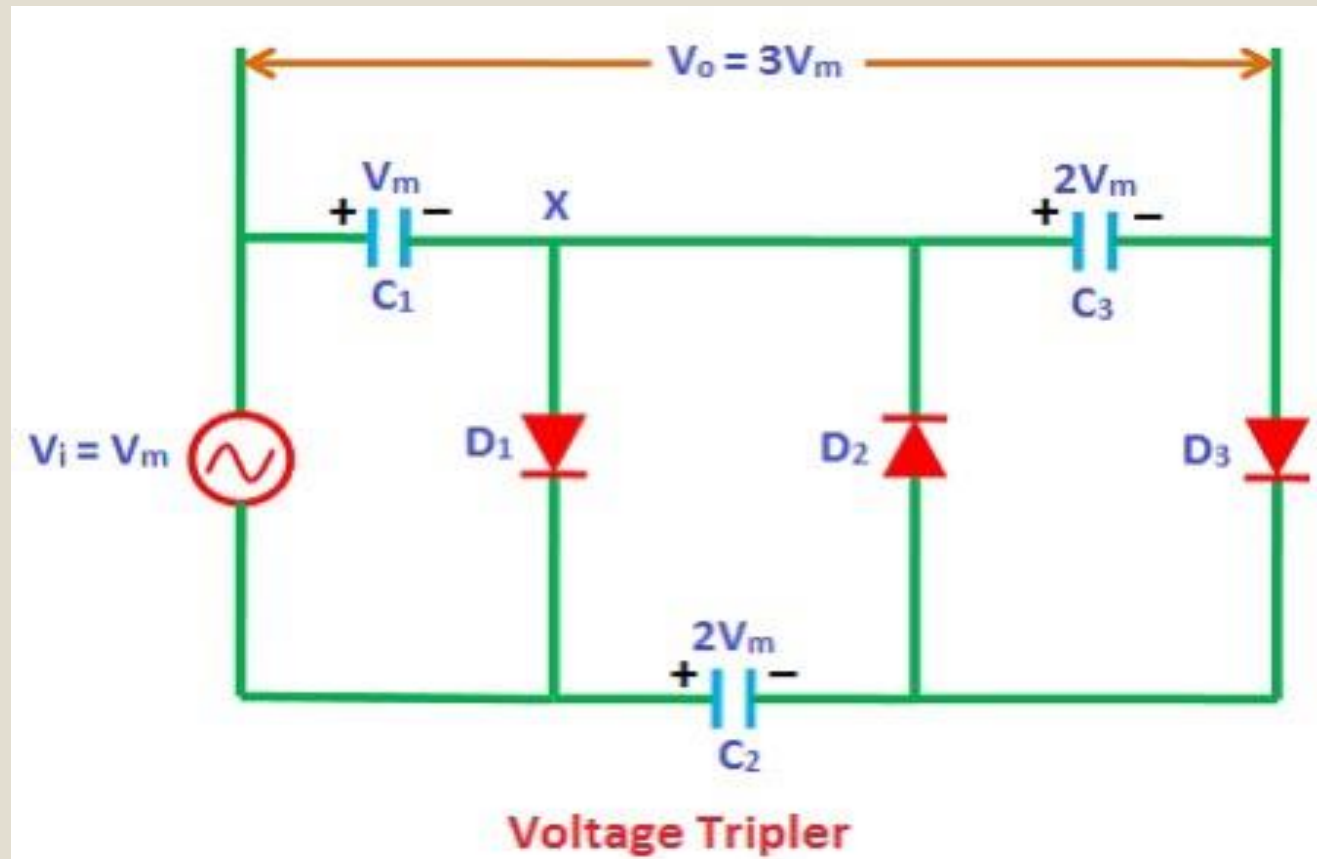
Project:



What is Voltage Multiplier ??

A voltage multiplier is an electrical circuit that converts AC electrical power from a lower voltage to a higher DC voltage, typically using a network of capacitors and diodes.

Diagram



Practical Applications

Voltage multipliers are used in :

- Cathode Ray Tubes (CRTs)
- Laser System
- X-Ray Systems
- LCD Backlighting
- Power Supplies
- Oscilloscopes
- Particle Accelerators
- Copy Machines

Advantages

- *Low Cost*
- *Produce High Voltage*
- *Alternative of Transformer*

Conclusion:

In conclusion, the voltage Tripler circuit using diodes and capacitors is a configuration that can triple the input voltage. It finds applications in situations where a high DC voltage is required. However, it has limitations such as increased output ripple and sensitivity to load variations, which need to be taken into account during design and implementation.

The End