

internal construction of the IC is somewhat different from that described for discrete voltage regulator circuits, the external operation is much the same. IC units provide regulation of either a fixed positive voltage, a fixed negative voltage, or an adjustably set voltage.

4.4. Three terminal Voltage Regulators:

Fig shows the basic connection of a three-terminal voltage regulator IC to a load. The fixed voltage regulator has an unregulated dc input voltage, V_{in} , applied to one input terminal, a regulated output dc voltage, V_{out} , from a second terminal, with the third terminal connected to ground.

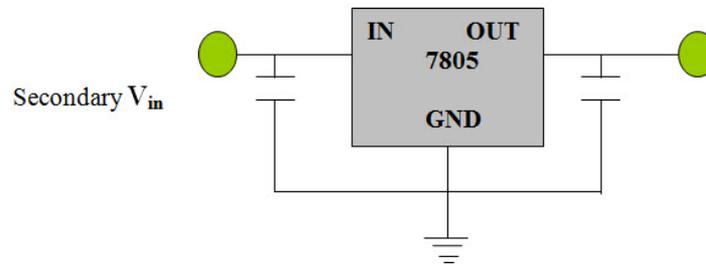


Fig.: Fixed Voltage Regulator

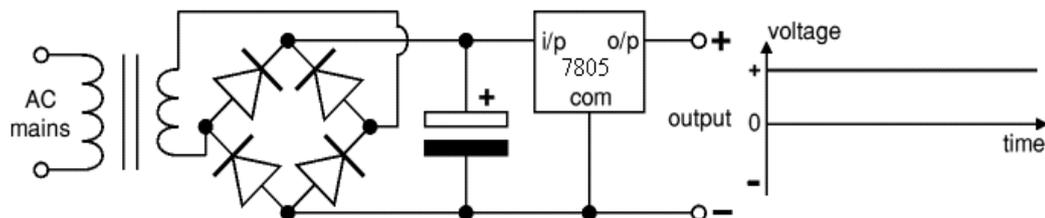


Fig.: Circuit Diagram of Power Supply

5. Conclusion:

The Purpose of such a model is to advance a system to detect fatigue symptoms in drivers and control the speed of vehicle to avoid accidents. The main components of the system consist of an eye blink sensor for driver blink acquisition. It is due to the driver's fatigue, traffic accidents keep with a yearly increasing of a high rate. This shows the new fatigue detection algorithm & techniques using eye blink sensor. In this project it is able to detect the driver drowsiness using eye blink sensor to prevent the accident rates.

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