

# Power Supply

The diagram illustrates a 5V voltage regulator circuit. A 12V DC source is connected to the input of an MC7805 regulator through a 100µF electrolytic capacitor (C1). The regulator's output provides a steady 5V. The ground connection is common to both the input and output.

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graph TD; V12V[+12V] --- C1[C1 100µF]; C1 --- VI[VI]; VI --- MC7805[MC7805]; MC7805 --- VOUT[VOUT +5V]; MC7805 --- GND[GND]; V12V --- GND;
```

# Reset Circuit

