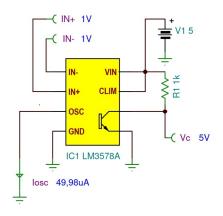
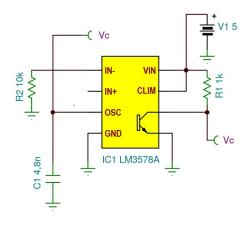
LM3578A Switching Regulator Macro Model

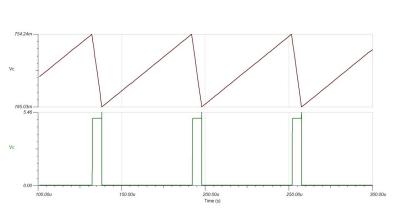
DC Test Circuit

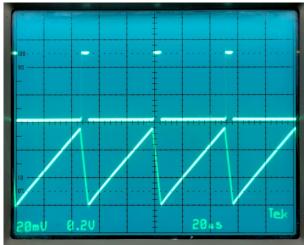




AC Test Circuit







Real device AC test.

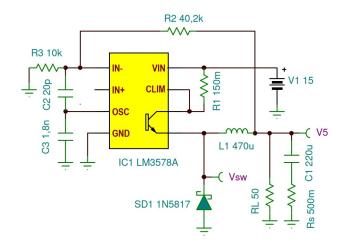
Typical values are 50 μ A for the charge current, 450 μ A for the discharge current, and a voltage swing from 200 mV to 750 mV.

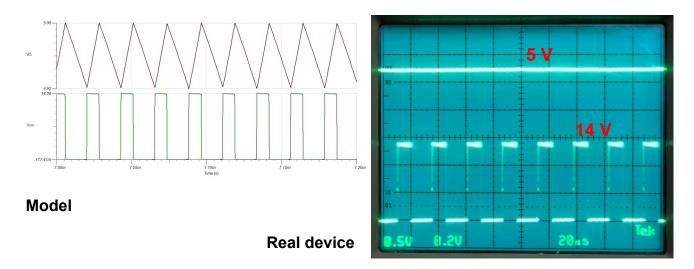
The LM1578A provides an on-board oscillator which can be adjusted up to 100 kHz. Its frequency is set by a single external capacitor.

Buck or Step-Down Regulator

Vin = 15 V

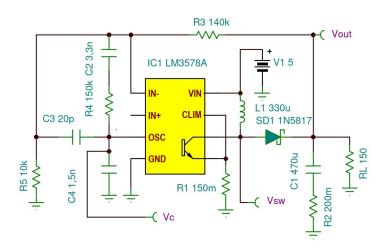
Vo = 5V

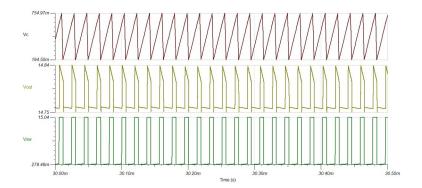




Boost or Step-Up Regulator

Vin = 5 V Vo = 15 V





Inverting Regulator

Vin = 5 V Vo = -5 V

