

Device Modeling Report

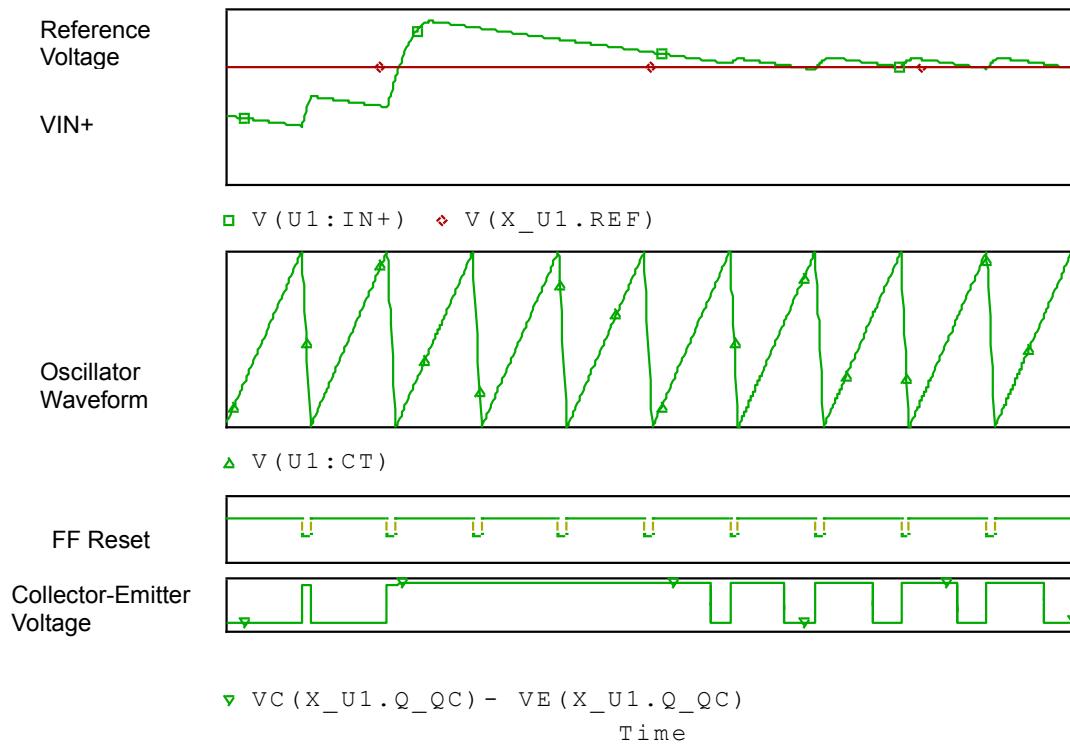
COMPONENTS: PWM DC/DC CONVERTER IC
PART NUMBER: NJM2374A
MANUFACTURER: NEW JAPAN RADIO



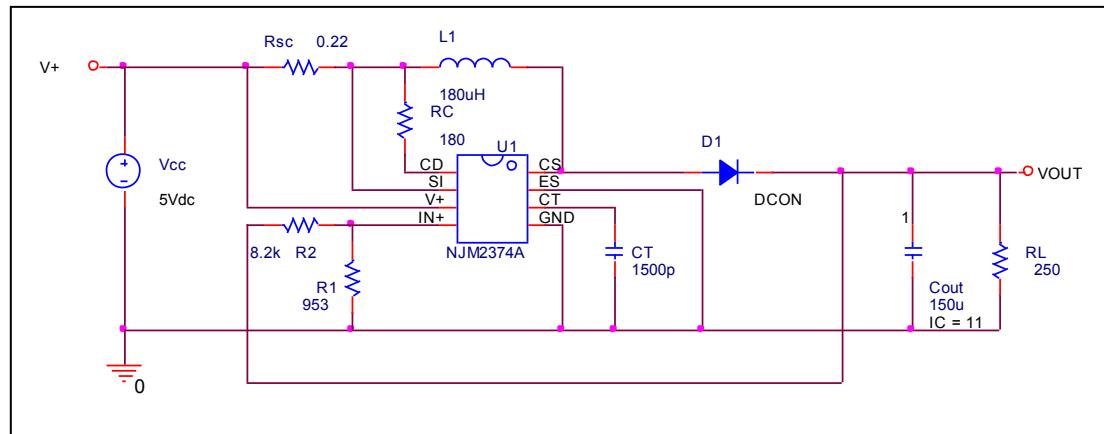
Bee Technologies Inc.

PWM comparator diagram (High Voltage Detect)

Circuit Simulation Result

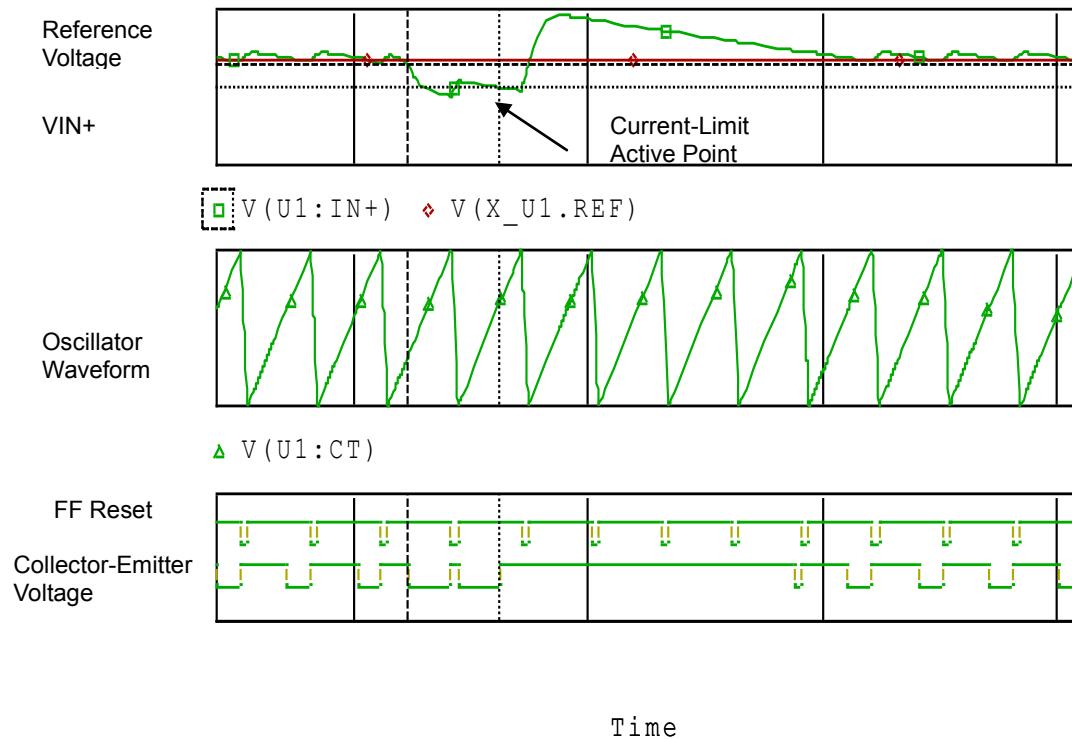


Evaluation circuit

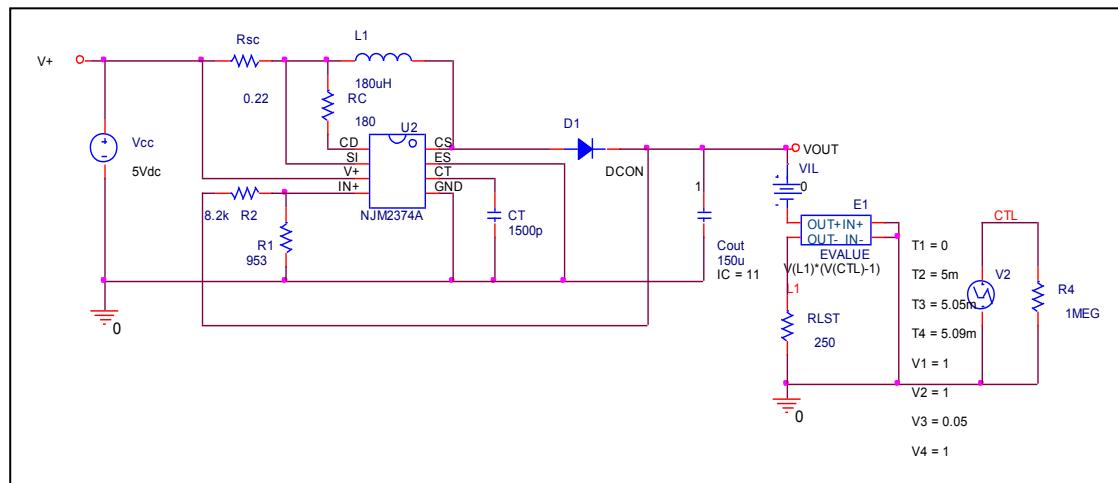


PWM comparator diagram (Current-Limit Active Point)

Circuit Simulation Result

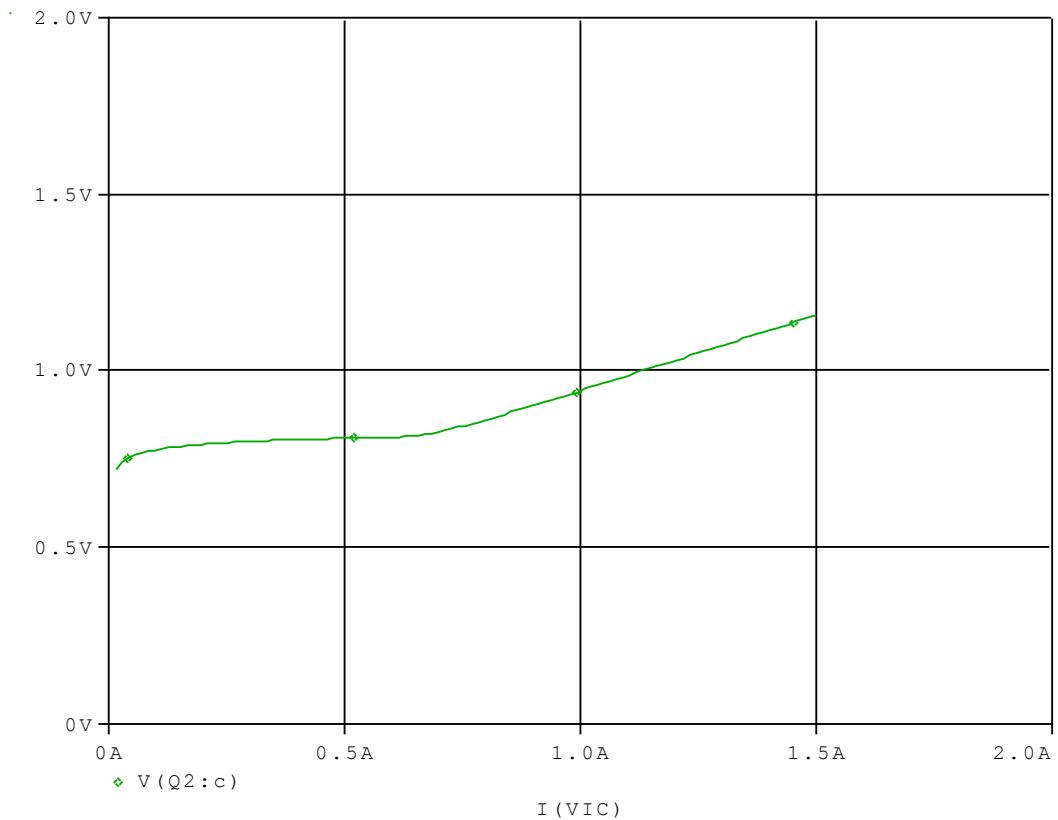


Evaluation circuit

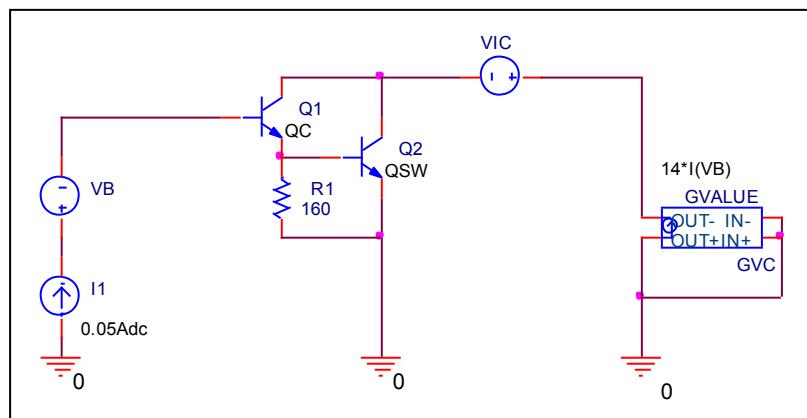


Saturation Voltage 1 vs. collector Current

Circuit Simulation Result



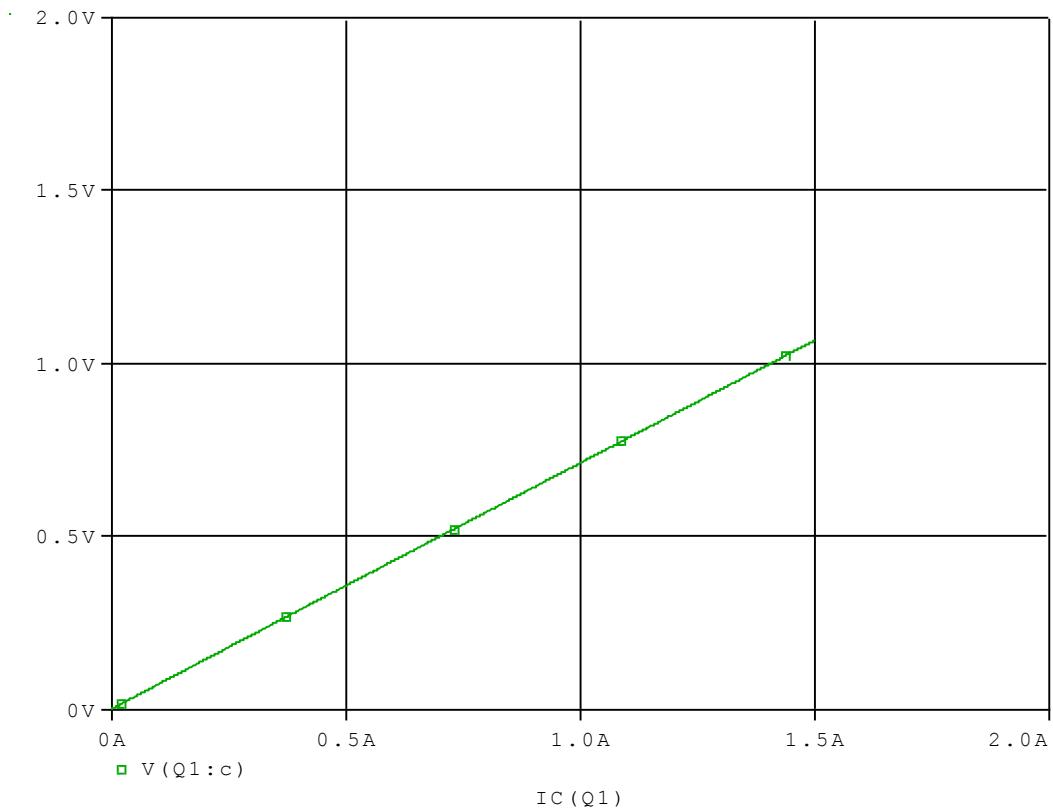
Evaluation circuit



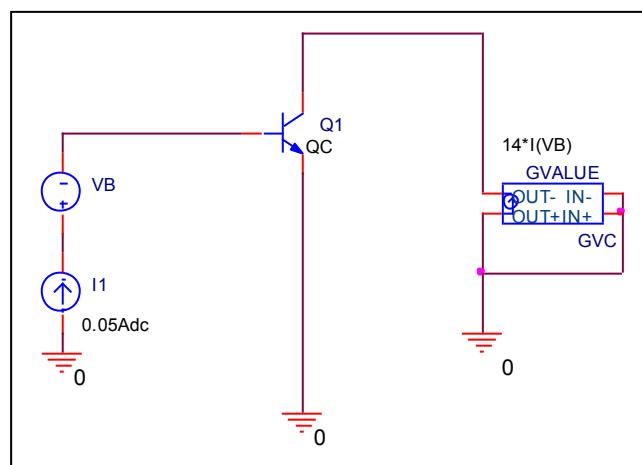
*REMARK: Simulation use transistor inside .subckt model of NJM2374A

Saturation Voltage 2 vs. collector Current

Circuit Simulation Result



Evaluation circuit

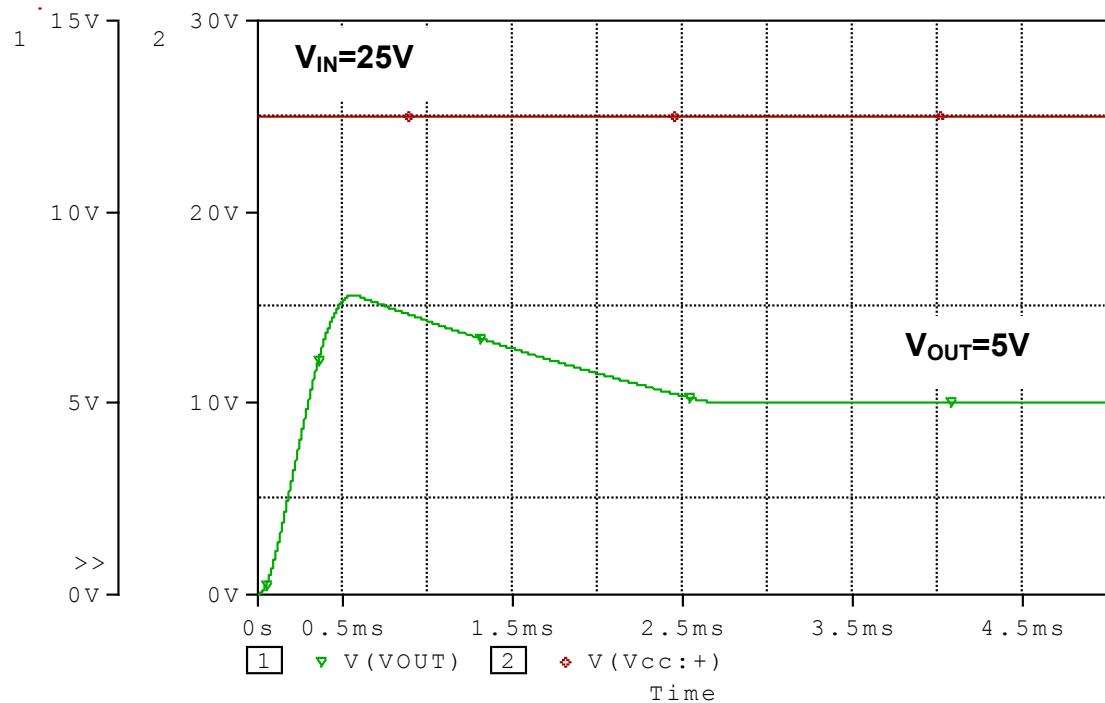


*REMARK: Simulation use transistor inside .subckt model of NJM2374A

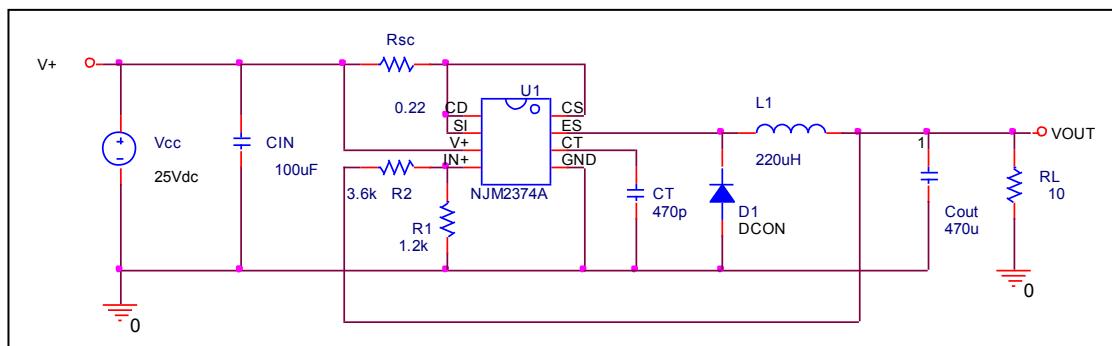
Step-Down Converter

Reference

Circuit Simulation Result



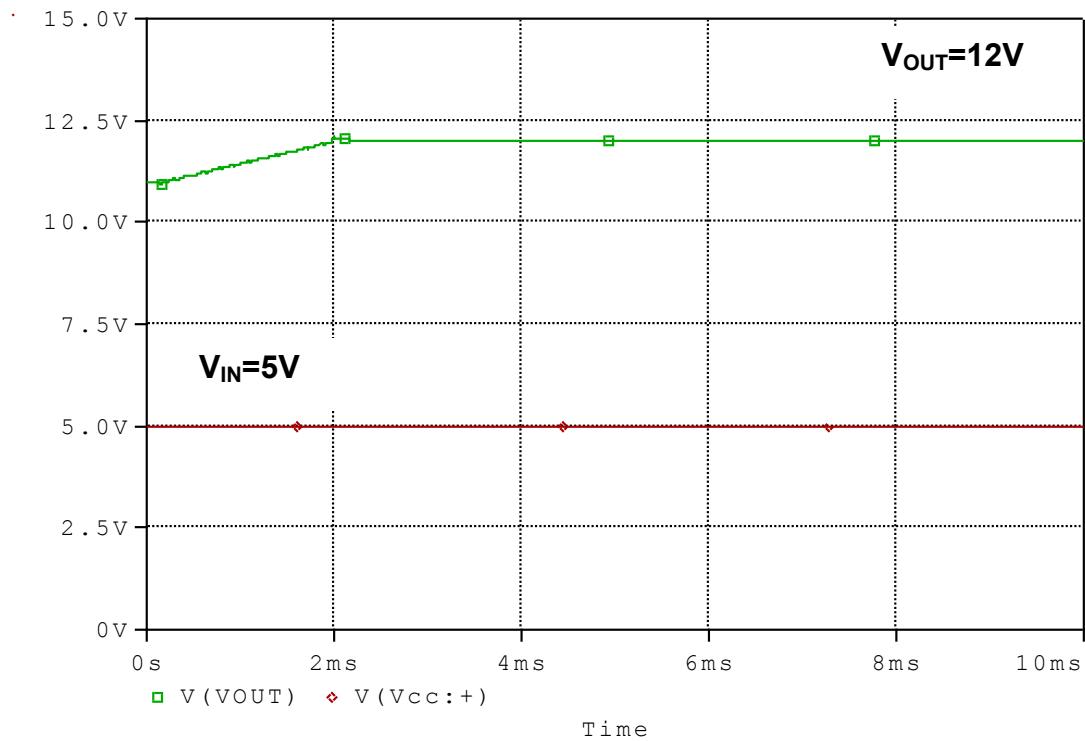
Evaluation circuit



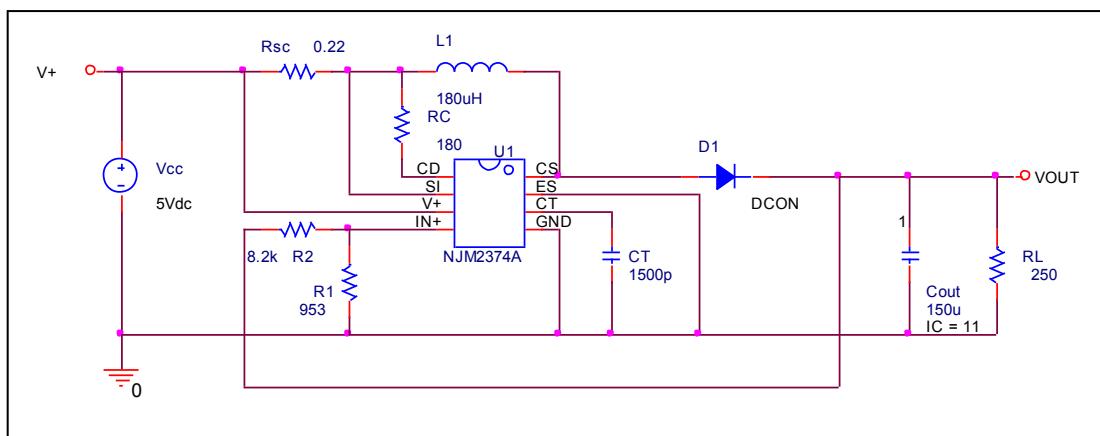
Step-Up Converter

Reference

Circuit Simulation Result



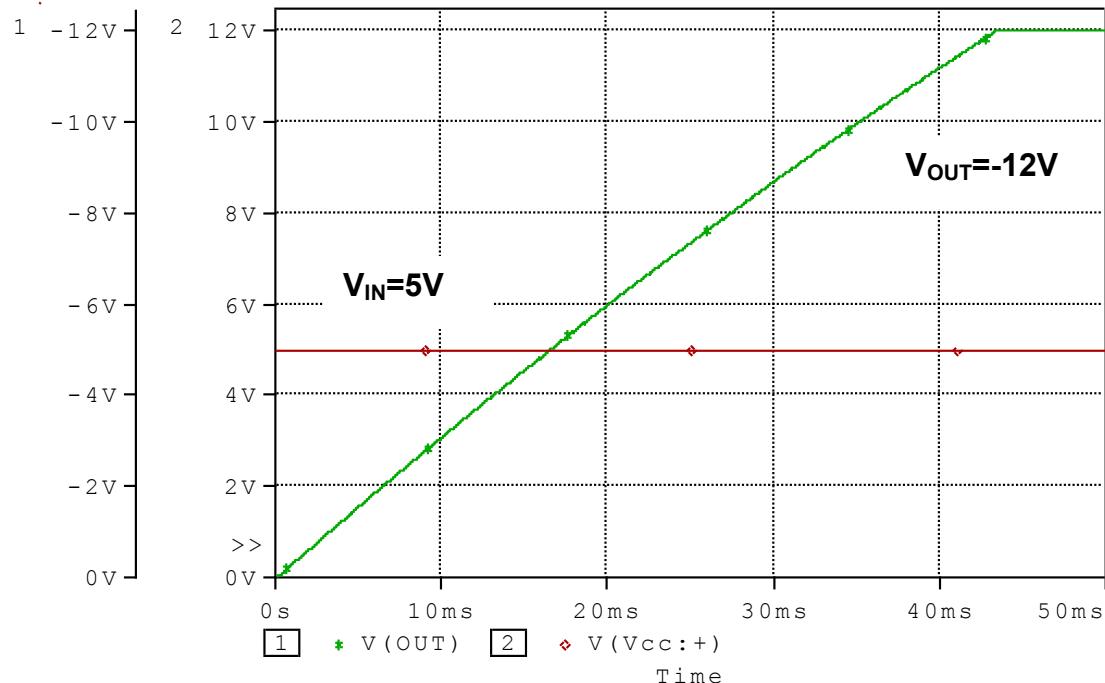
Evaluation circuit



Inverting Converter

Reference

Circuit Simulation Result



Evaluation circuit

