Device Modeling Report
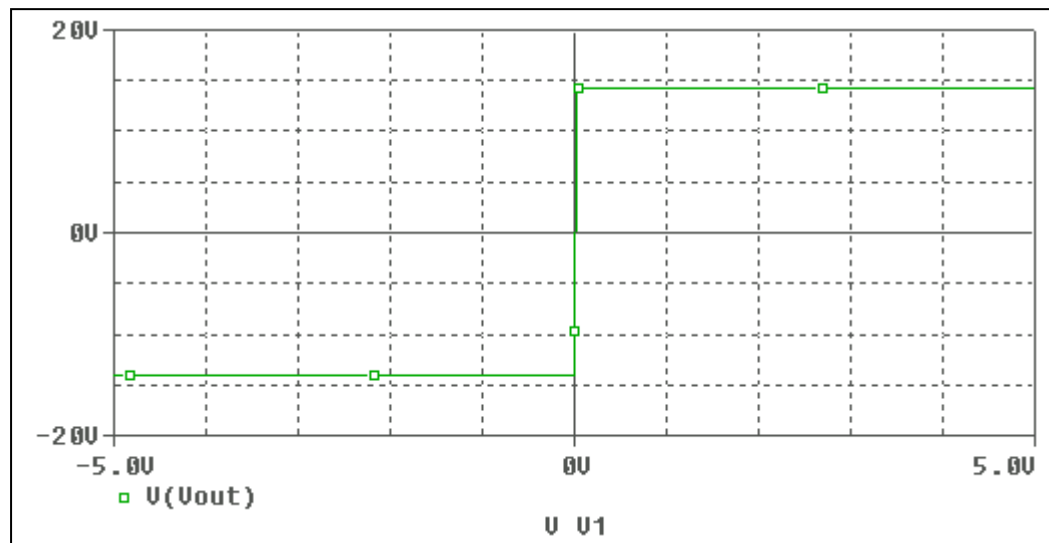
COMPONENTS: OPERATIONAL AMPLIFIER
PART NUMBER:NJM062L
MANUFACTURER: NEW JAPAN RADIO CO.,LTD

Bee Technologies Inc.
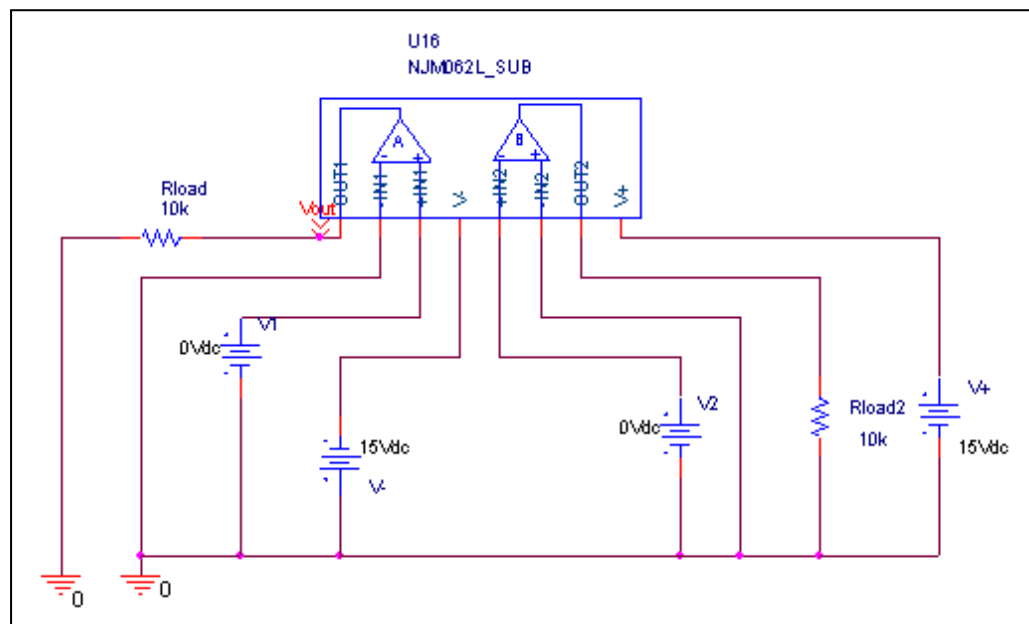
Output Voltage Swing, +Vout and –Vout
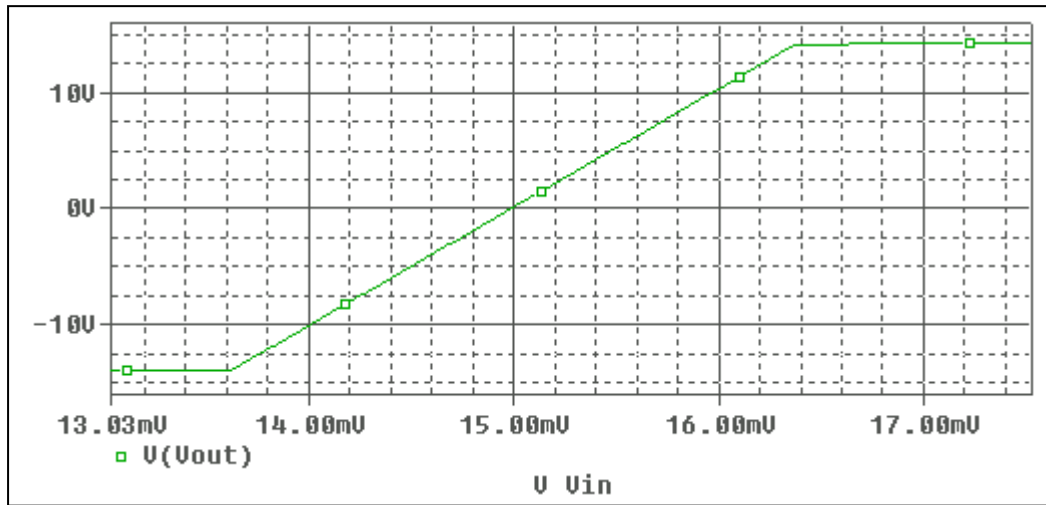
These simulation results are compared with ±Vout

Output Voltage Swing	Data sheet	Simulation	%Error
+Vout(V)	+14.2	+14.29	0.633
-Vout(V)	-14	-14.09	0.642

Input Offset Voltage

Simulation result

Evaluation circuit
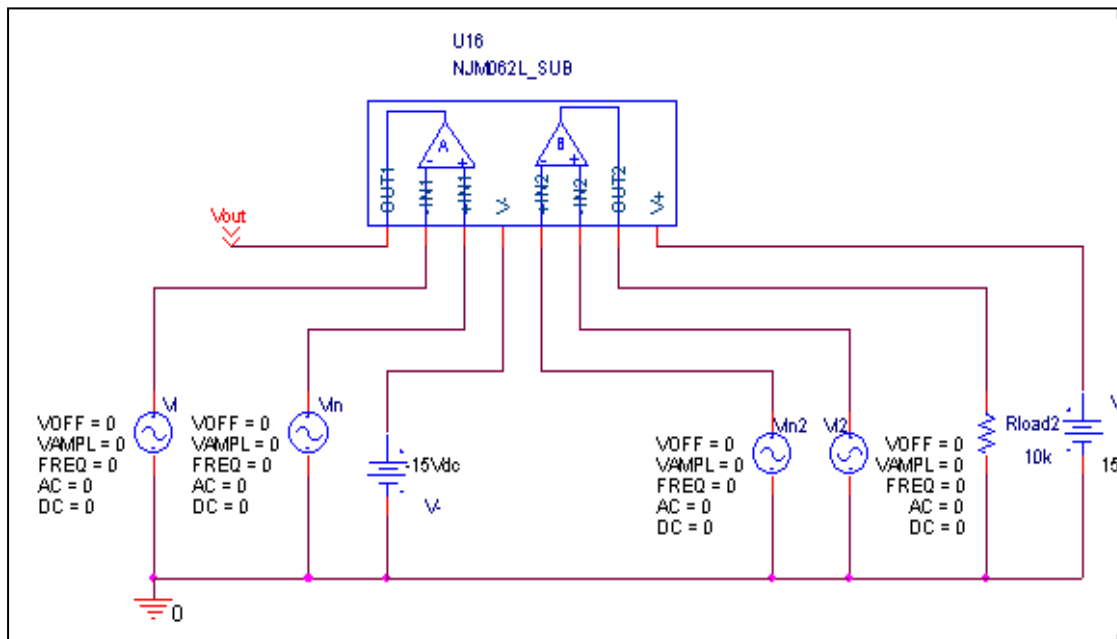
Vos	Measurement		Simulation		Error	
	15	mV	14.985	mV	0.1	%

Slew Rate, +SR, -SR

Simulation result
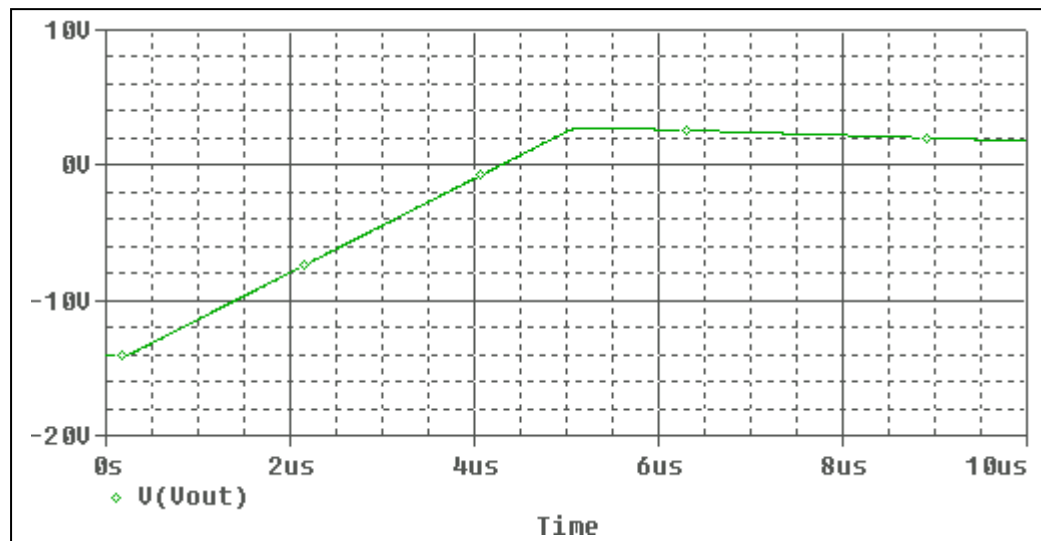
Evaluation circuit
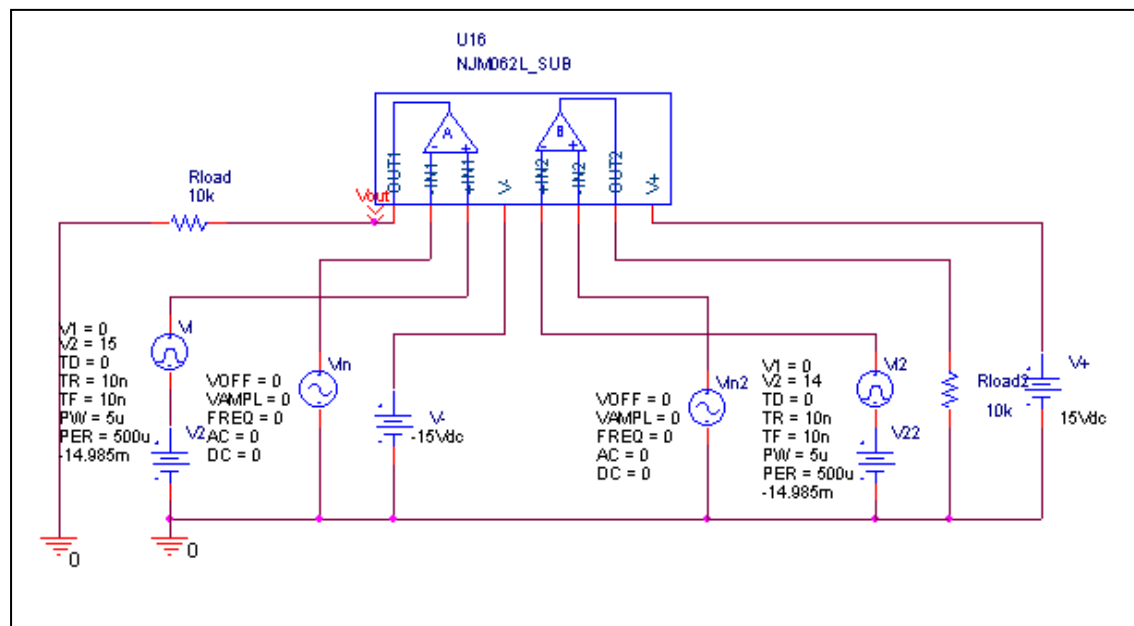
Slew Rate(v/us)	Data sheet	Simulation	%Error
	3.5V/us	3.475V/us	0.714

Input current Ib, Ibos

Simulation result
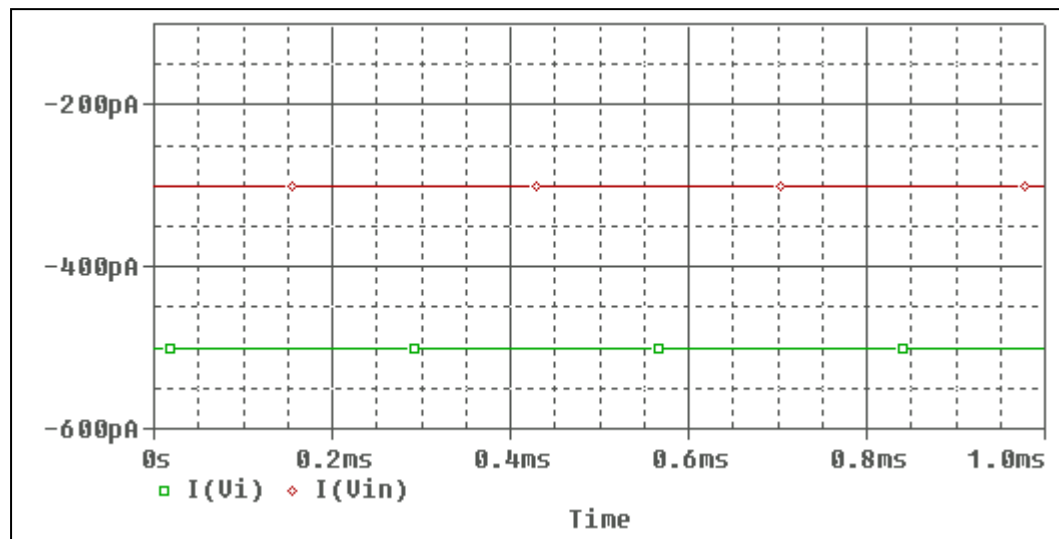
Evaluation circuit
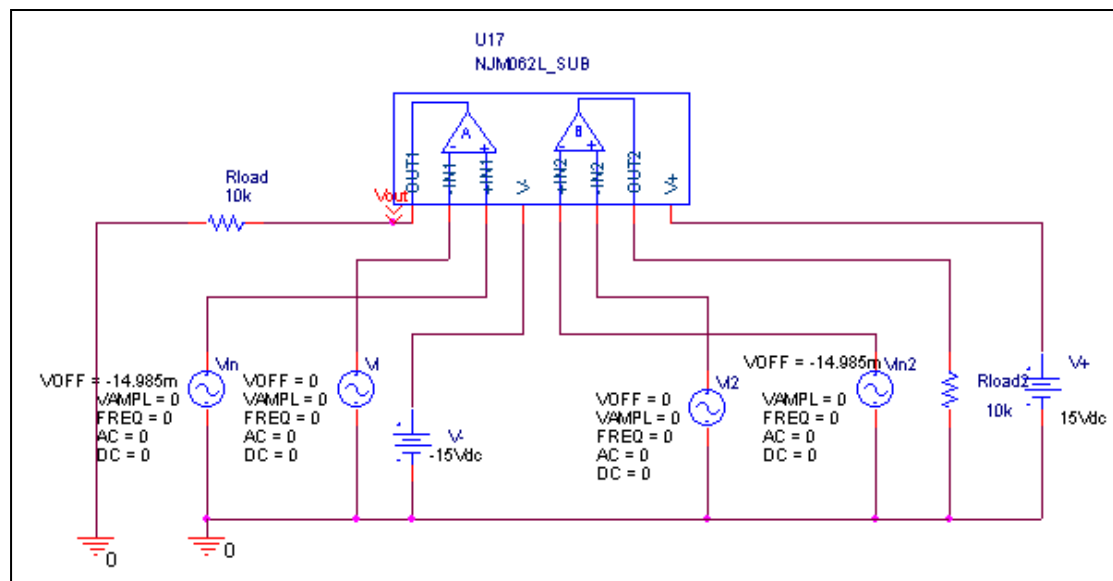
	Data sheet	Simulation	%Error
Ib(pA)	400	400.15	0.037
Ibos(pA)	200	200.06	0.03

Open Loop Voltage Gain vs. Frequency , Av-dc, f-0dB
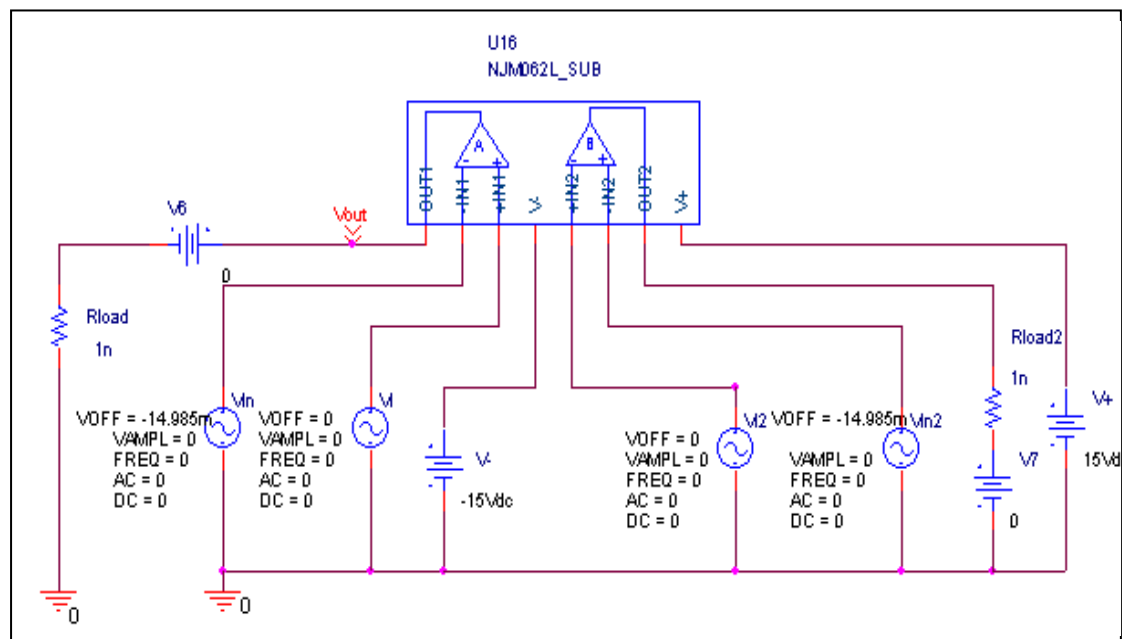
Simulation result
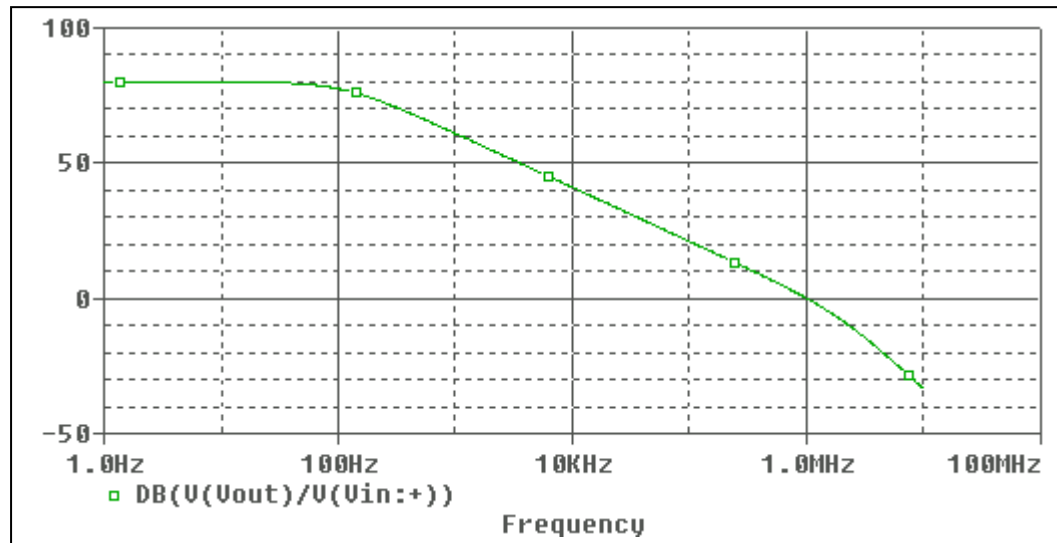
Evaluation circuit
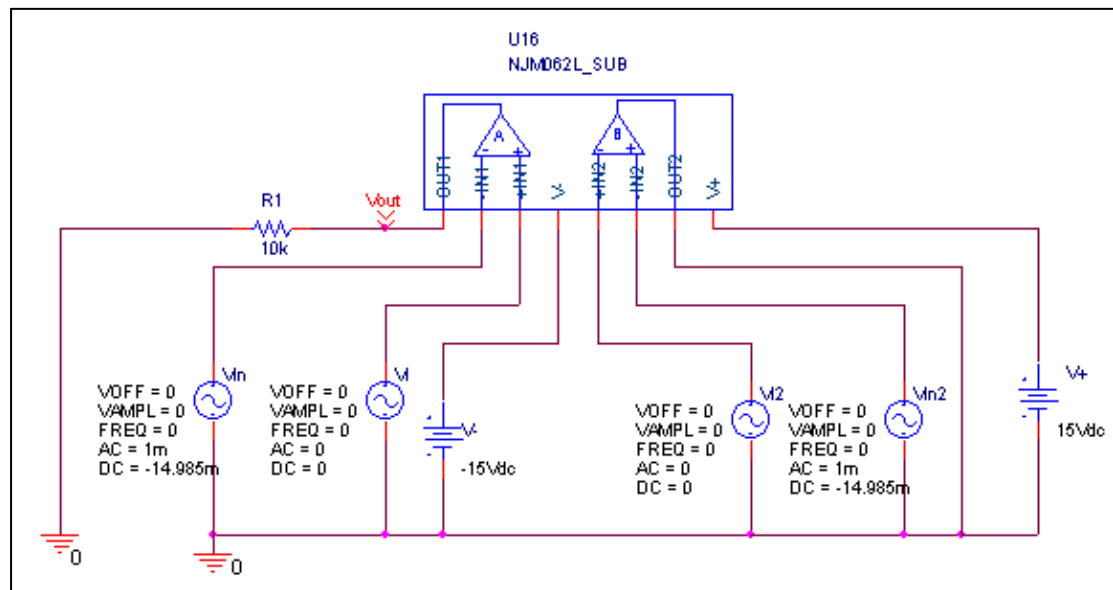
	Data sheet	Simulation	%Error
f-0dB(MHz)	1	1	0
Av-dc	80	80.1	0.125

Output Short Circuit Current - Ios

Simulation result
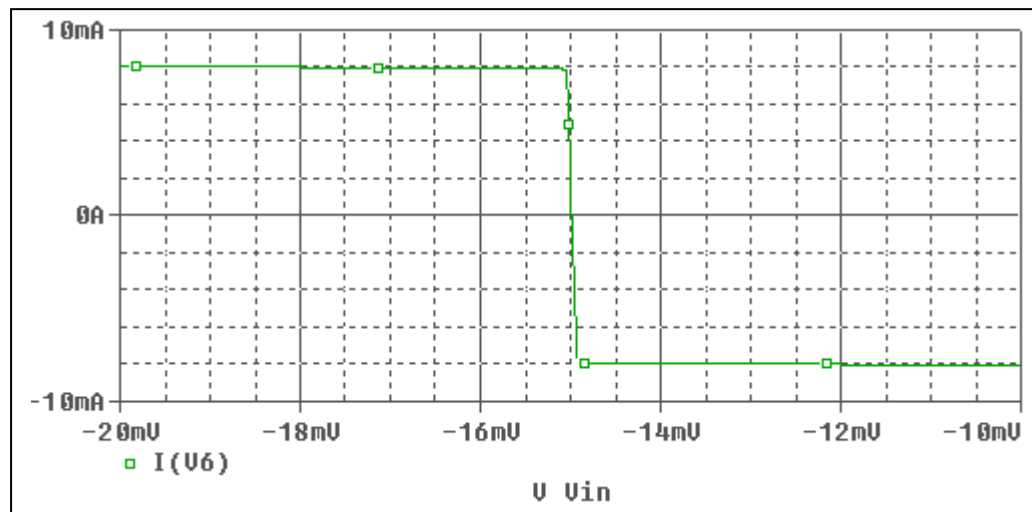
Evaluation circuit

Short Circuit Current	Data sheet	Simulation	%Error
	8mA	8.013mA	0.162

Common-Mode Rejection Voltage gain

Simulation result
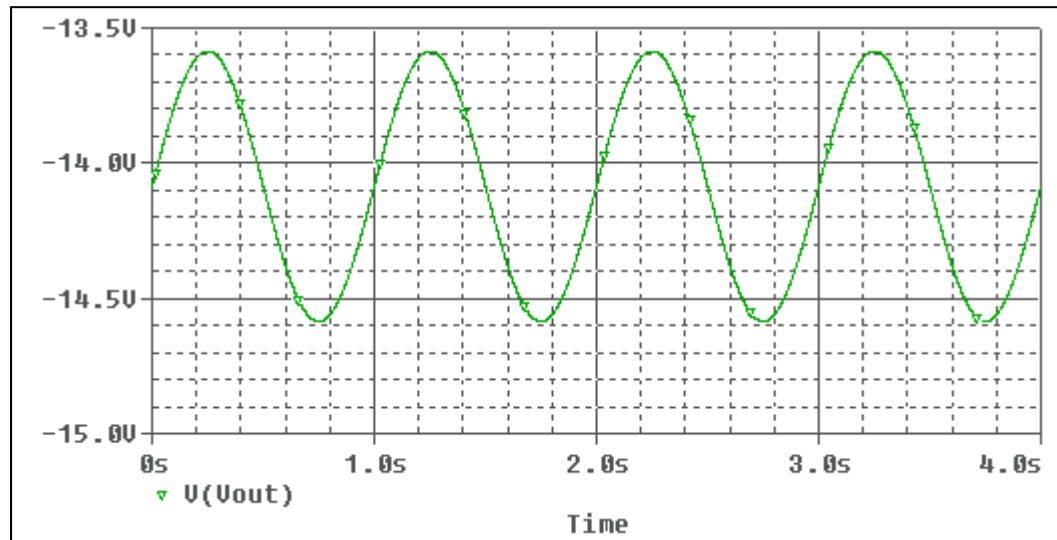
Evaluation circuit
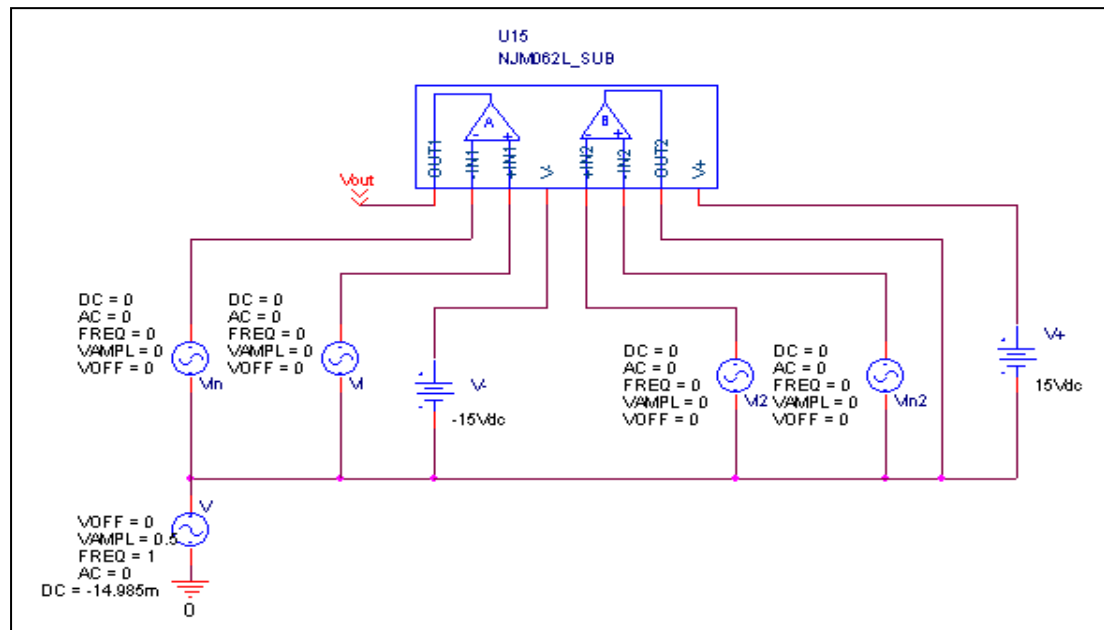
Common mode gain=0.3162/1=0.3162
Common Mode Reject Ratio=10115/0.3162=31991

CMRR	Data sheet	Simulation	%Error
	31622	31991	1.166