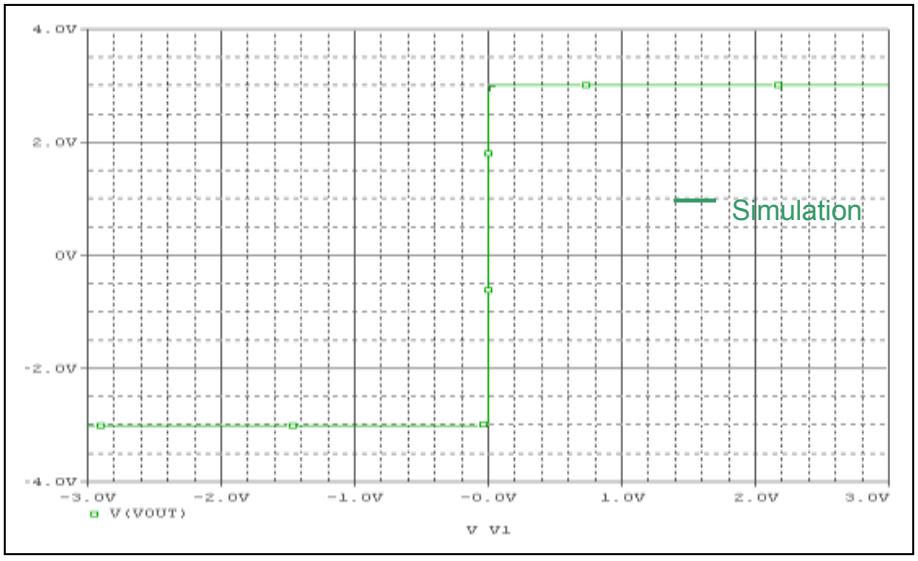
Device Modeling Report

COMPONENTS : OPERATIONAL AMPLIFIER
PART NUMBER : OPA2652
MANUFACTURER: BURR BROWN CORPORATION

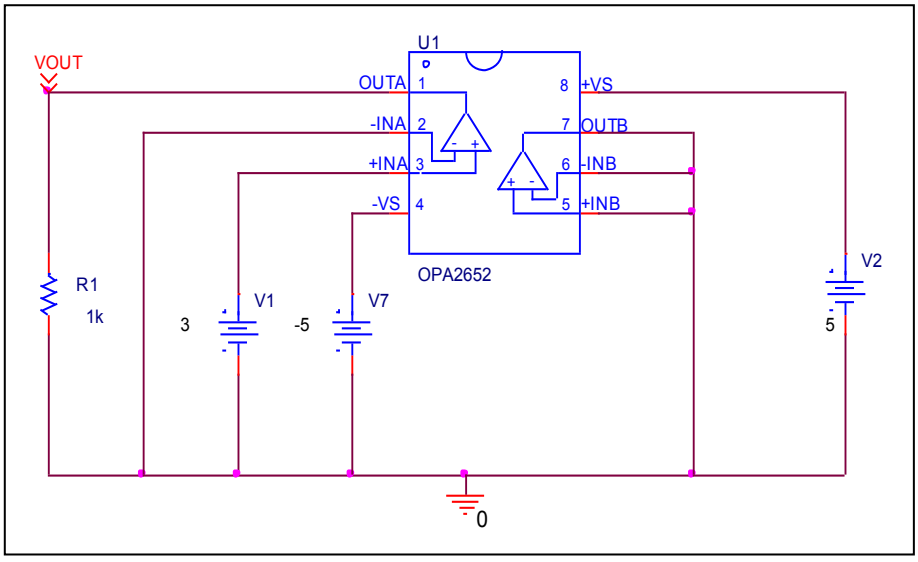
Bee Technologies Inc.

Output Voltage Swing

Simulation result



Evaluation circuit

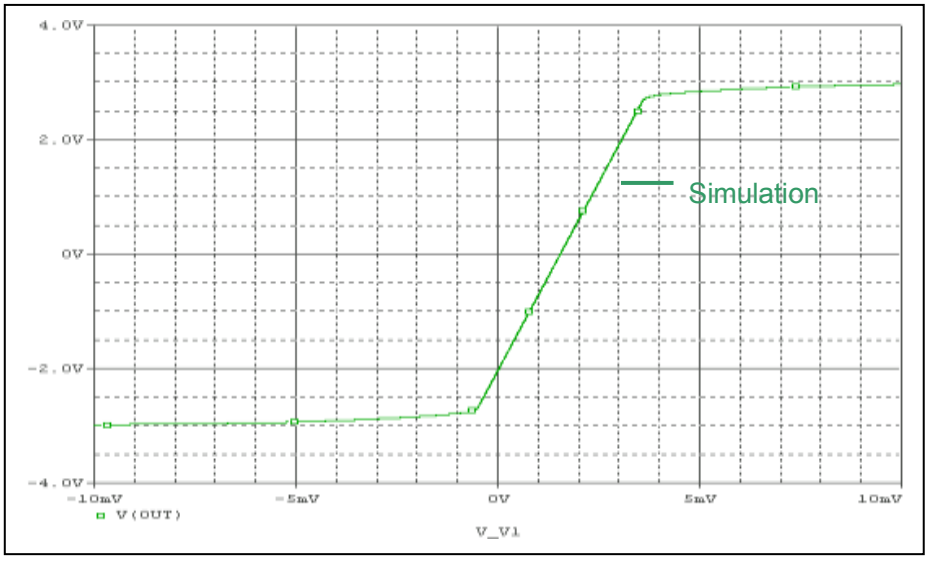


Comparison Table

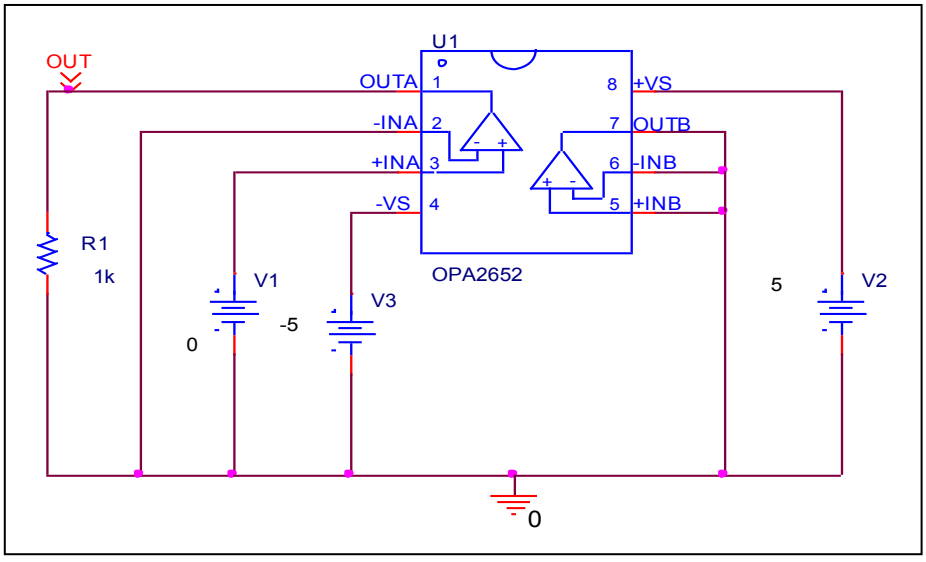
Output Voltage Swing	Measurement	Simulation	%Error
± V_{OUT} (V)	± 3	± 3	0

Input Offset Voltage

Simulation result



Evaluation Circuit

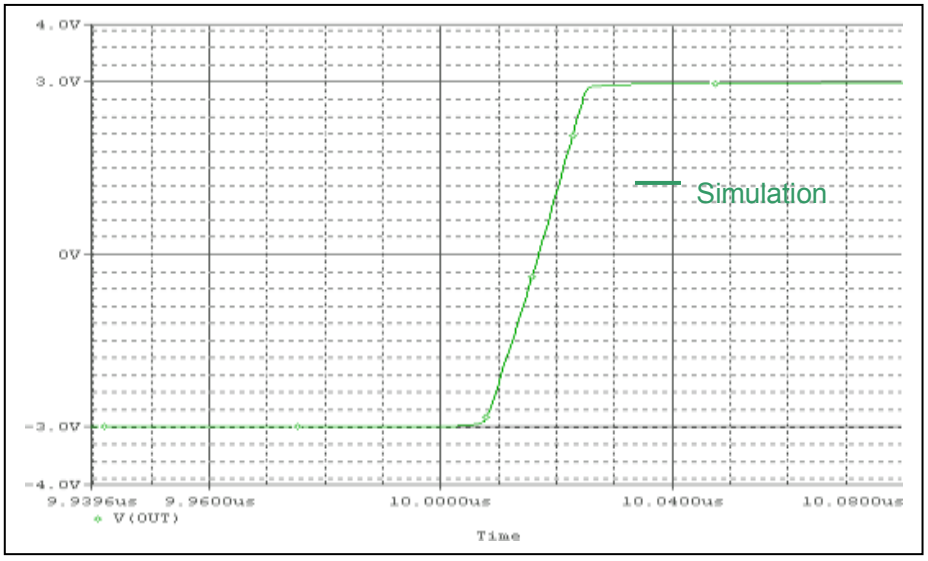


Comparison Table

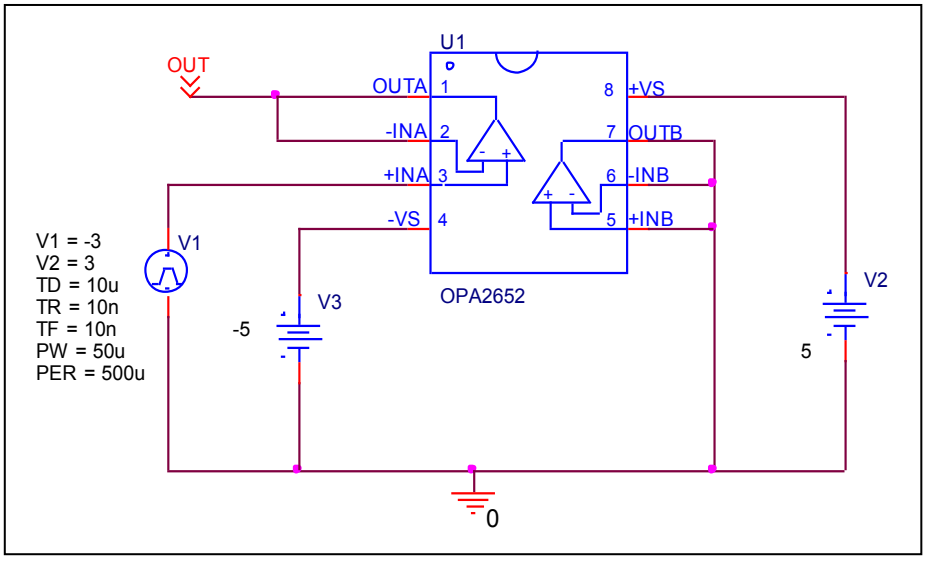
Input offset Voltage	Measurement	Simulation	%Error
V_{os} (mV)	1.5	1.5499	3.327

Slew Rate

Simulation result



Evaluation Circuit

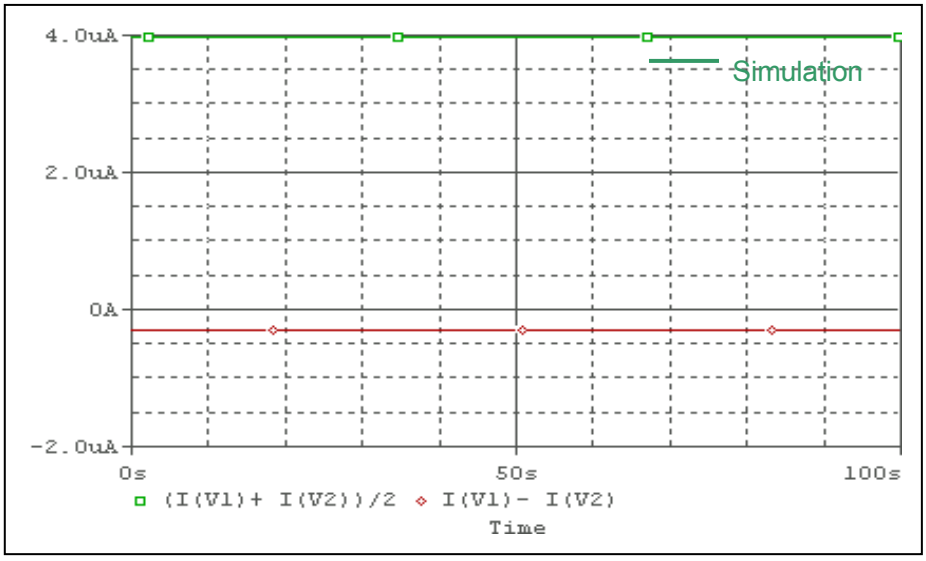


Comparison Table

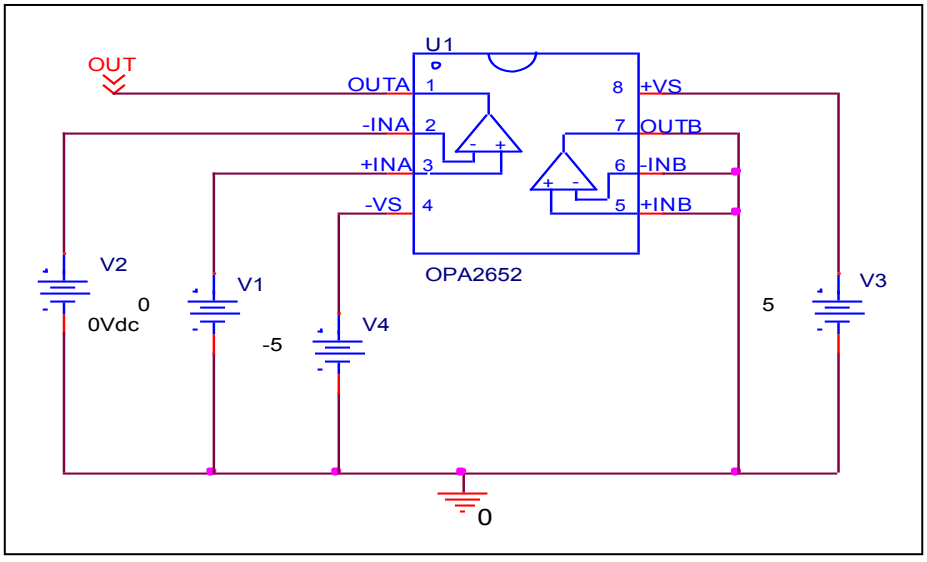
Slew Rate	Measurement	Simulation	%Error
SR (V/us)	335	334.33	-0.2

Input Current

Simulation result



Evaluation Circuit

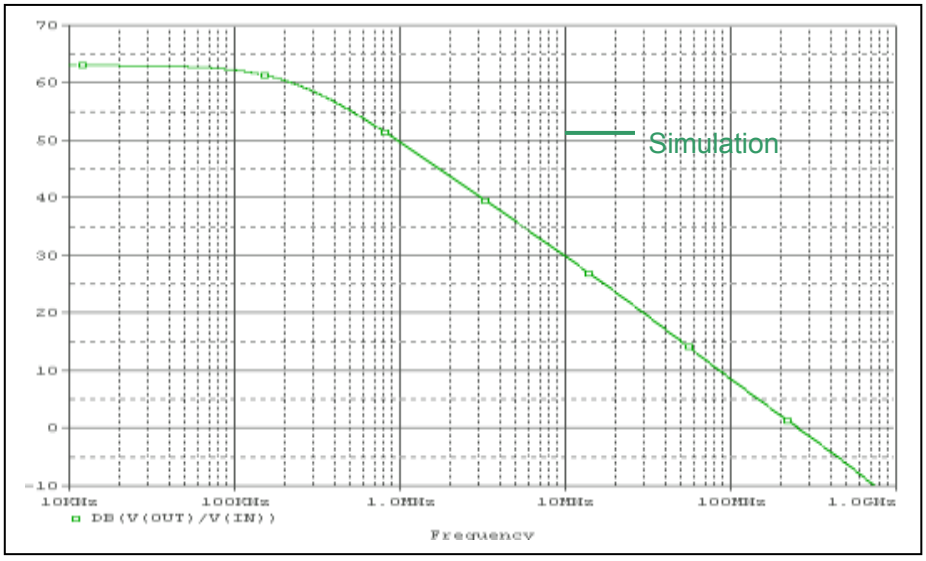


Comparison Table

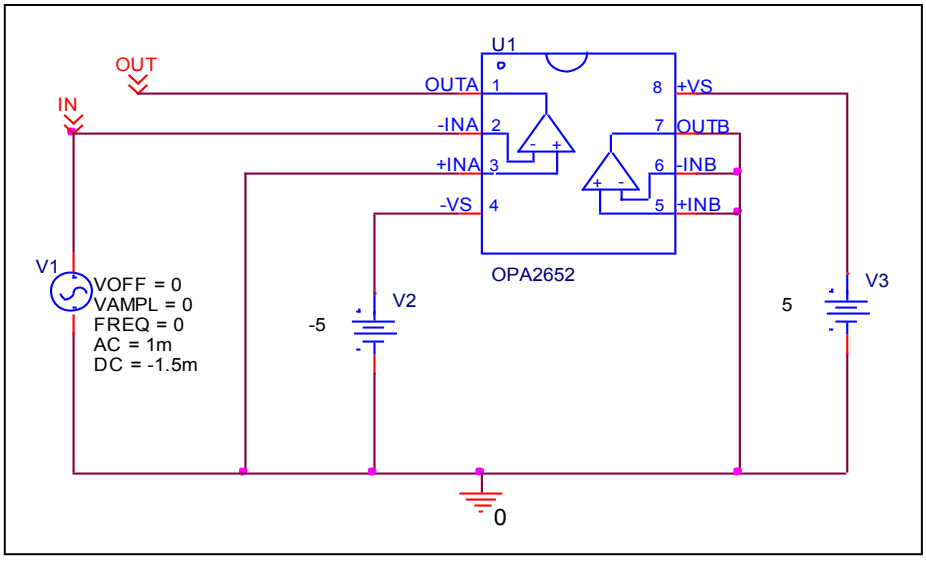
Input Current	Measurement	Simulation	% Error
I_b (uA)	4	3.9855	-0.362
I_{bos} (uA)	-0.3	-0.312406	4.135

Open loop Voltage Gain

Simulation result



Evaluation Circuit

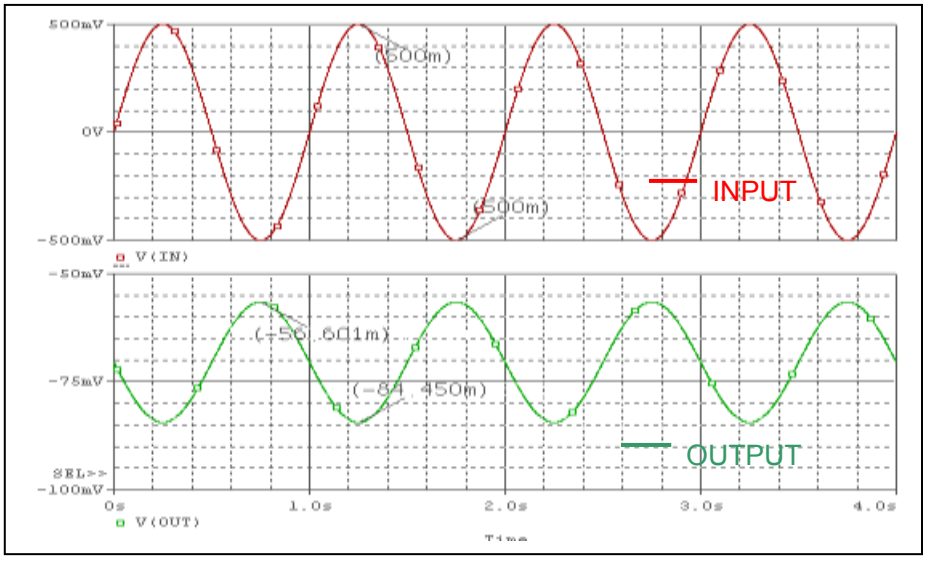


Comparison Table

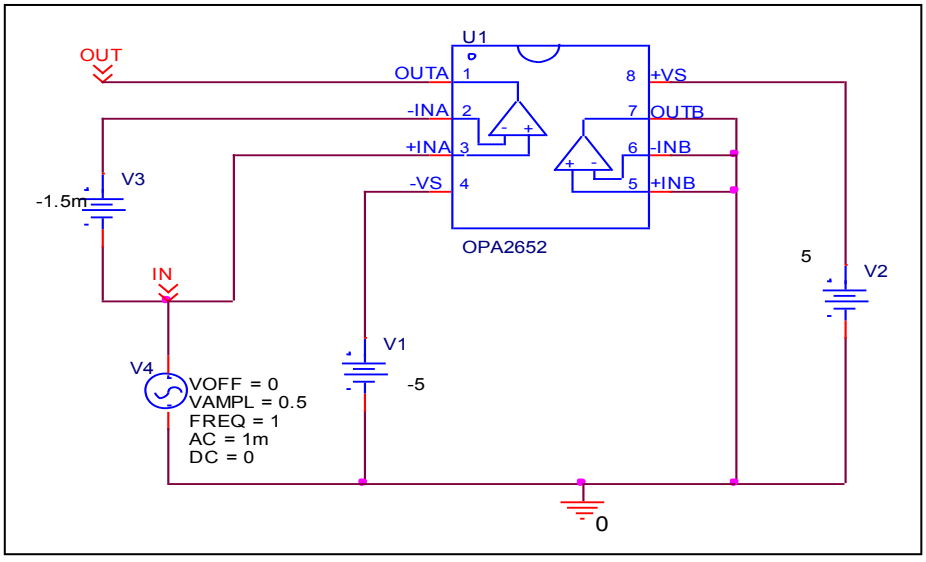
	Measurement	Simulation	% Error
Av (dB)	63	62.997	-0.005
f-0dB(MHz)	250	256.38	2.552

Common-Mode Rejection Ratio

Simulation result



Evaluation Circuit



CMRR = AV/ACM

= 1412/(27.849m/1)

Comparison Table

	Measurement	Simulation	% Error
CMRR (dB)	95	94.1	-0.947