

PSpice Model

Operational Amplifier

LT

LT1807

Model Information

Model An original macro model
Call Name MDC_LT1807_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_LT1807_PS01.lib
 Model Report MDC_LT1807_PS.pdf (this file)
Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version LT 0809 REV C
- Product name LT1807
- Company name Linear Technology Corporation
- Characteristics GainFreq.[Temp],Slew rate,Voltage output swing,Input offset voltage,Input bias current,Input referred voltage noise

Simulation Condition

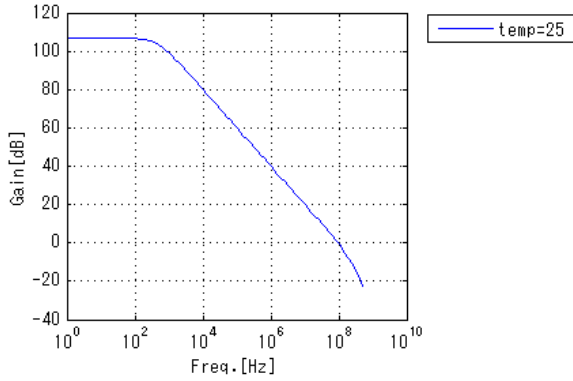
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

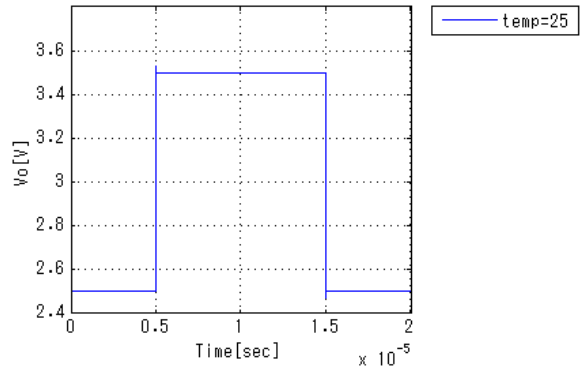
GainFreq.[Temp]

Vs+ = 5V, Vs- = 0V



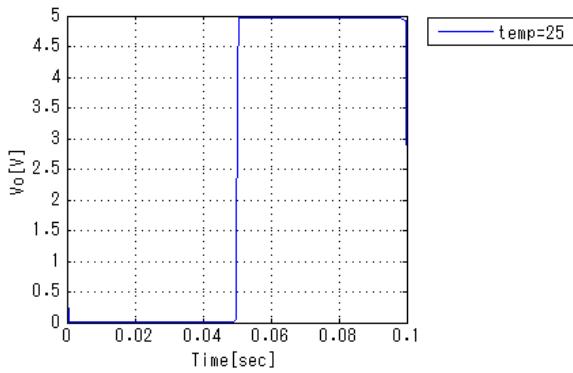
Slew rate

Vs+ = 5V, Vs- = 0V, Gain = 1



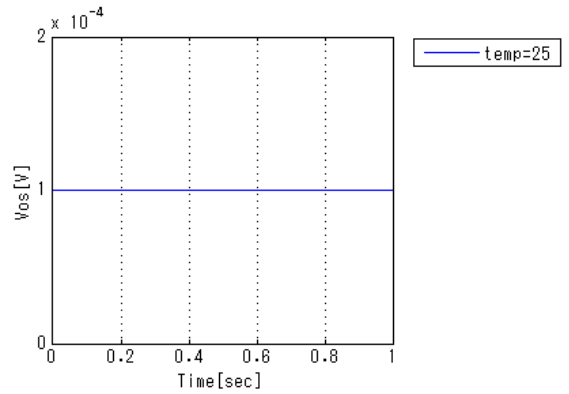
Voltage output swing

Vs+ = 5V, Vs- = 0V, RI = 2000ohm



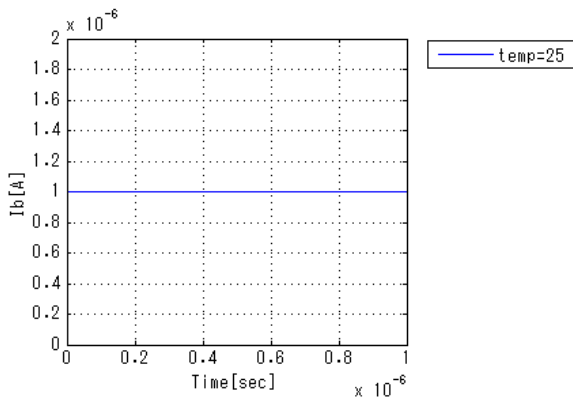
Input offset voltage

Vs+ = 5V, Vs- = -5V



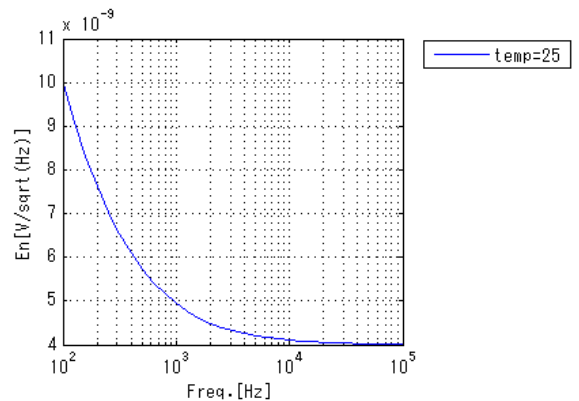
Input bias current

Vs+ = 5V, Vs- = 0V



Input referred voltage noise

Vs+ = 5V, Vs- = 0V



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