

PSpice Model

Operational Amplifier

Maxim

MAX40007

Model Information

Model An original macro model
Call Name MDC_MAX40007_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_MAX40007_PS01.lib
 Model Report MDC_MAX40007_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 Rev 0
- Product name MAX40007
- Company name Maxim Integrated
- Characteristics GainFreq.[Temp],PhaseFreq.[Temp],Slew rate,Voltage output swing,Input offset voltage,Input bias current,Input referred voltage noise

Simulation Condition

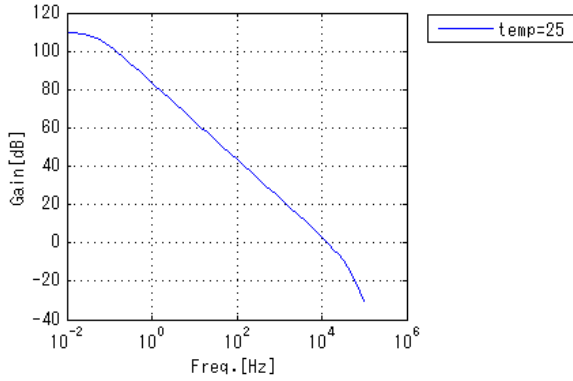
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

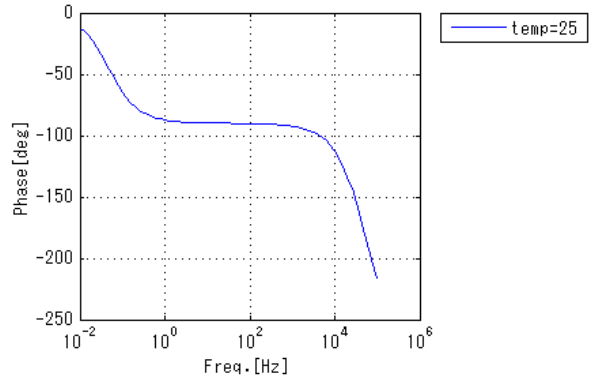
GainFreq.[Temp]

Vs+ = 3V, Vs- = 0V



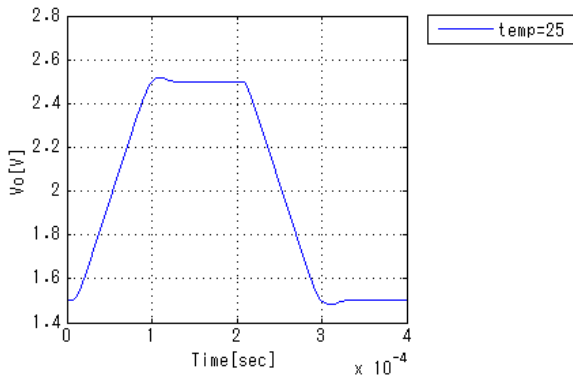
PhaseFreq.[Temp]

Vs+ = 3V, Vs- = 0V



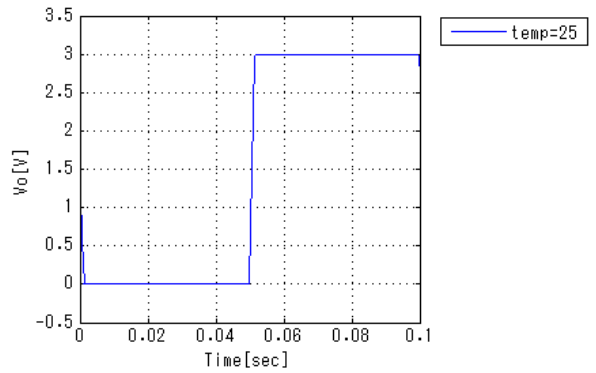
Slew rate

Vs+ = 3V, Vs- = 0V, Gain = 1



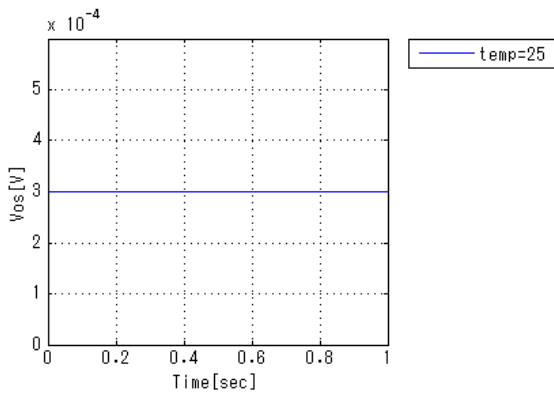
Voltage output swing

Vs+ = 3V, Vs- = 0V, RI = 100000ohm



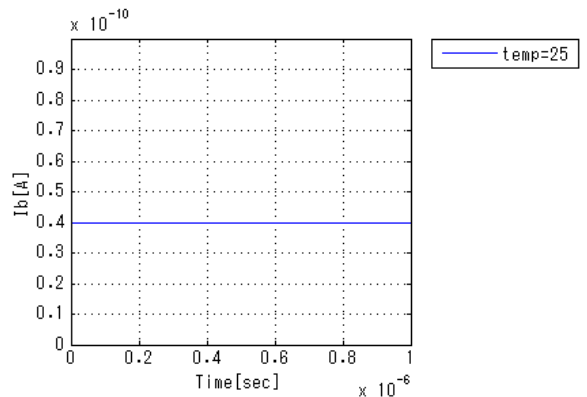
Input offset voltage

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



Input bias current

Vs+ = 3V, Vs- = 0V

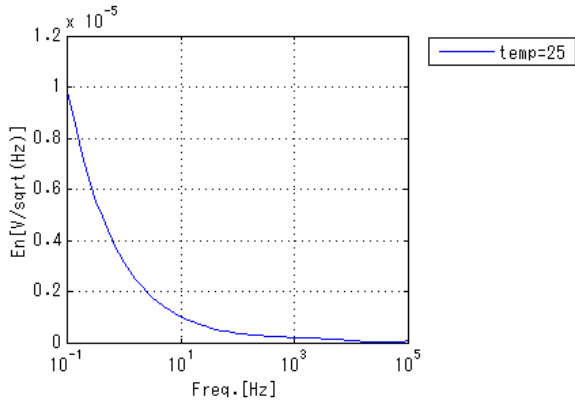


Simulation results are following.

Explanatory notes — : simulated

Input referred voltage noise

$V_{s+} = 3V$, $V_{s-} = 0V$



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