

PSpice Model

Operational Amplifier

RENESAS

HA1630D06T

Model Information

Model An original macro model
Call Name MDC_HA1630D06T_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_HA1630D06T_PS01.lib
 Model Report MDC_HA1630D06T_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.5.00 2007.02.07
- Product name HA1630D06T
- Company name Renesas Electronics Corporation
- Characteristics GainFreq.[Temp],PhaseFreq.[Temp],Slew rate,Voltage output swing,Input bias current

Simulation Condition

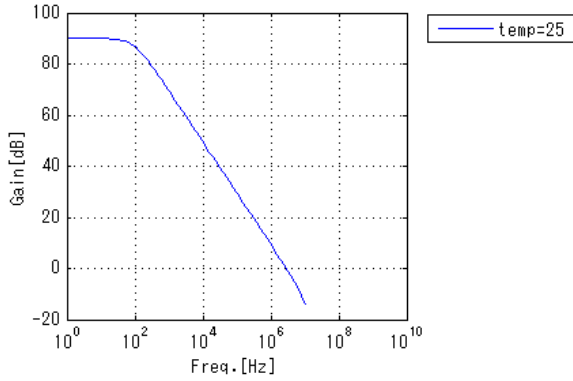
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

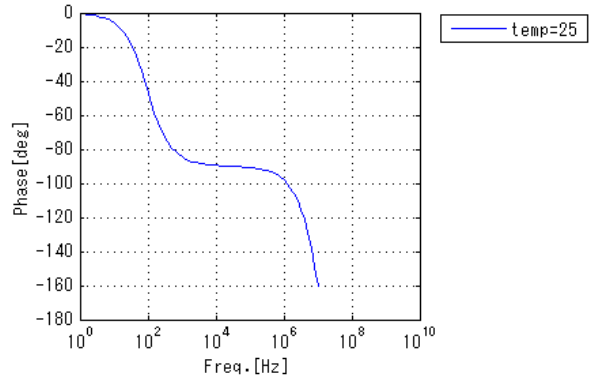
GainFreq.[Temp]

Vs+ = 5V, Vs- = 0V



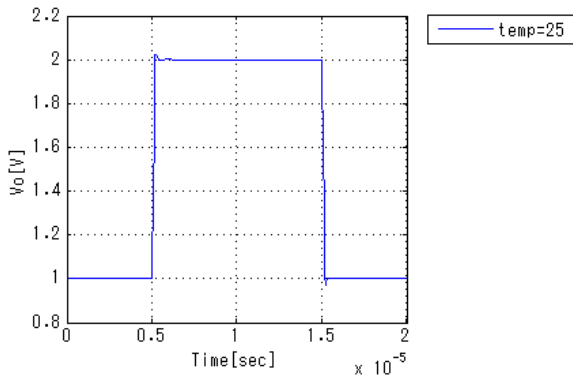
PhaseFreq.[Temp]

Vs+ = 5V, Vs- = 0V



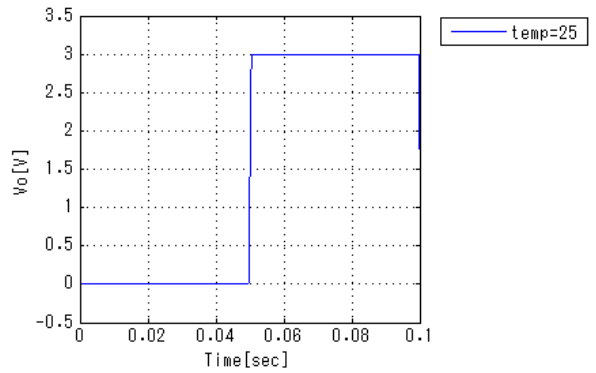
Slew rate

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



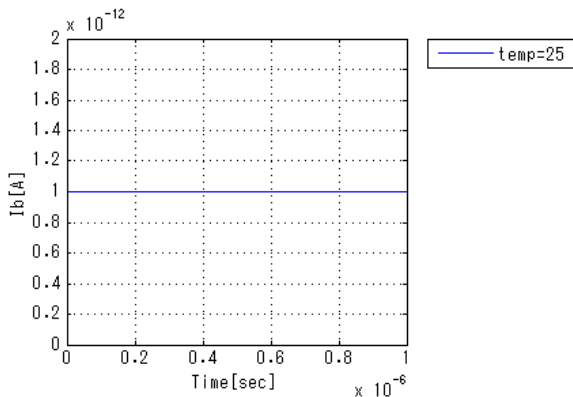
Voltage output swing

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



Input bias current

Vs+ = 3V, Vs- = 0V



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