

PSpice Model

Operational Amplifier

RENESAS

UPC842

Model Information

Model An original macro model
Call Name MDC_UPC842_PS
Pin Assign 1:Out 2:In- 3:In+ 4:V- 5:V+
File List Model Library MDC_UPC842_PS01.lib
 Model Report MDC_UPC842_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 December 2007
- Product name UPC842
- Company name Renesas Electronics Corporation
- Characteristics GainFreq,[Temp],Slew rate,Voltage output swing,Input offset voltage,Input bias current

Simulation Condition

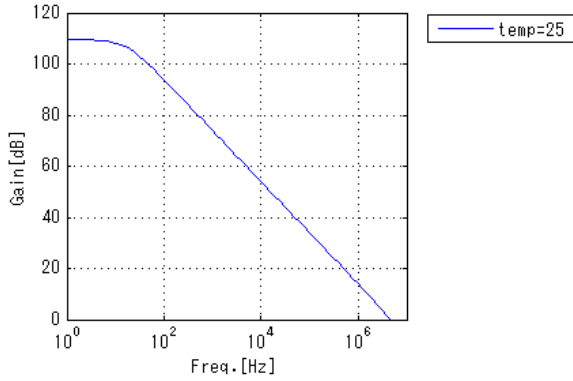
This table shows the value of evaluated simulation condition that was not occurs any convergence problems in this area.

Item	Condition	Unit
Temperature	25	deg C

Simulation results are following.
 Explanatory notes — : simulated

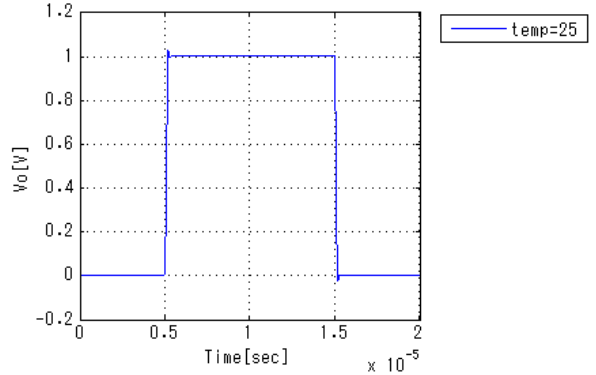
GainFreq.[Temp]

Vs+ = 15V, Vs- = -15V



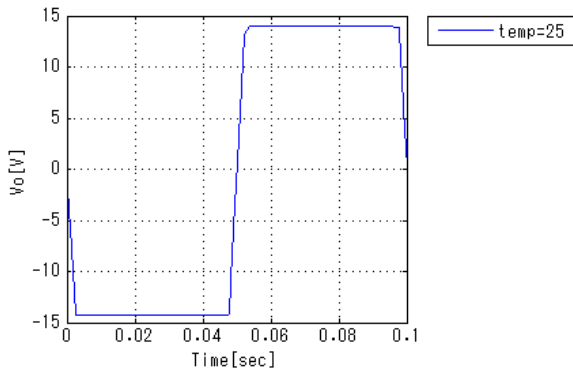
Slew rate

Vs+ = 15V, Vs- = -15V, Gain = 1



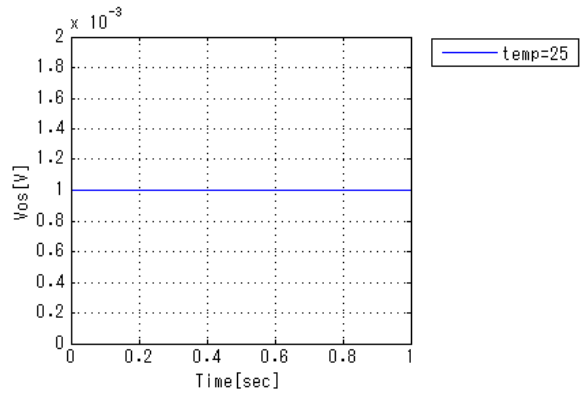
Voltage output swing

Vs+ = 15V, Vs- = -15V, RI = 2000ohm



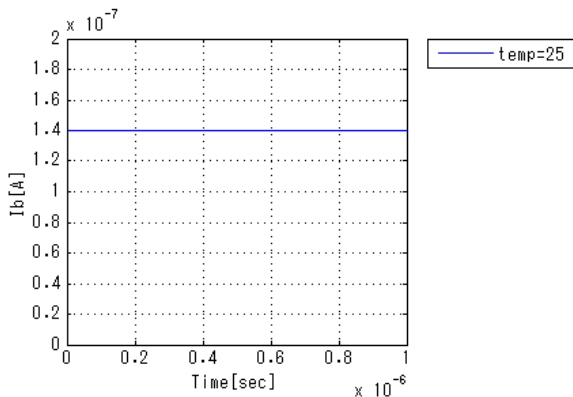
Input offset voltage

Vs+ = 15V, Vs- = -15V



Input bias current

Vs+ = 15V, Vs- = -15V



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