

# PSpice Model Operational Amplifier RENESAS UPC812

# **Model Information**

	An original macro model MDC_UPC812_PS	
Pin Assign	1:Out 2:In- 3:In+ 4:V- 5:V+	
File List	Model Library	MDC_UPC812_PS01.lib
	Model Report	MDC_UPC812_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]	
Date/Version	March 2004
Product name	UPC812
Company name	Renesas Electronics 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.

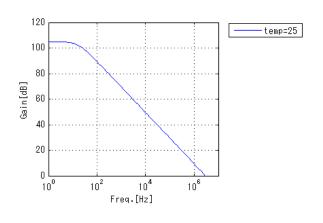
Item	Condition	Unit
Temperature	25	deg C



# Simulation results are following. Explanatory notes -: simulated

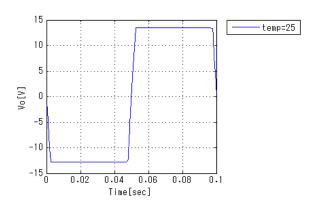
# GainFreq.[Temp]

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



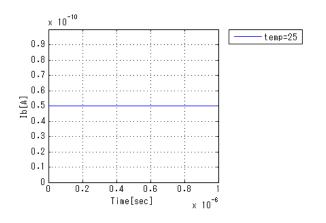
## Voltage output swing

Vs+ = 15V, Vs- = -15V, RI = 20000hm



### Input bias current

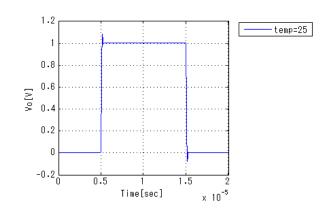
Vs+ = 15V, Vs- = -15V



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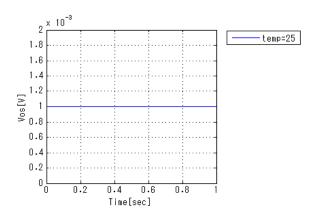
#### Slew rate

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



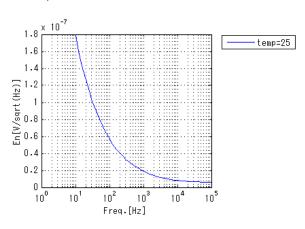
## Input offset voltage

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



### Input referred voltage noise

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





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