

LTspice Model Single Comparators ON Semiconductor LM211DR2G

Model Information

Model	A macro model
Call Name	MDC_LM211DR2G_LT
Pin Assign File List	1:GND 2:Input+ 3:Input- 4:VEE 5:Balance 6:Balance/Strobe 7:Output 8:VCC Model Library MDC_LM211DR2G_LT01.lib Model Report MDC_LM211DR2G_LT.pdf(this file)

Verified Simulator Version

LTspice 17.1.8

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

•Date/Version	August, 2012 - Rev. 6		
Product name	LM211/D		
Company name	ON Semiconductor		
•••••••••••••••••			

[Characteristics listed]

Characteristics

Input Offset Voltage Input Offset Current Voltage Gain Response Time Saturation Voltage Output Leakage Current Input Voltage Range Power Supply Current

Simulation Condition

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

Item	Condition			Unit
item	Min	Тур	Max	Unit
Temperature		25.0		deg C
Power Supply Voltage (Single)	5.0		30.0	V
Power Supply Voltage (Dual)	-15.0		15.0	V

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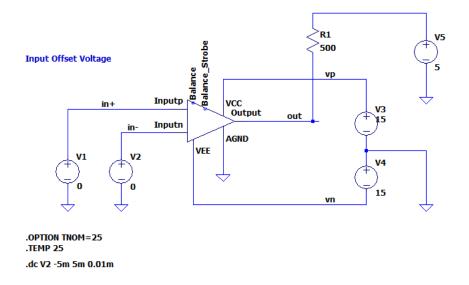


Comparator		O : Implemented × : Not Implemented	
Model Functions Table	RANK=1	— : Not applicable	
Functions	RANK	Implemented	
Input Offset Voltage	1	0	
Input Offset Current	1	0	
Input Bias Current	1	-	
Voltage Gain	1	0	
Response Time	1	0	
Saturation Voltage	1	0	
Output Leakage Current	1	0	
Input Voltage Range	1	0	
Power Supply Current	1	0	
Balance, Balance/Strobe	1	-	



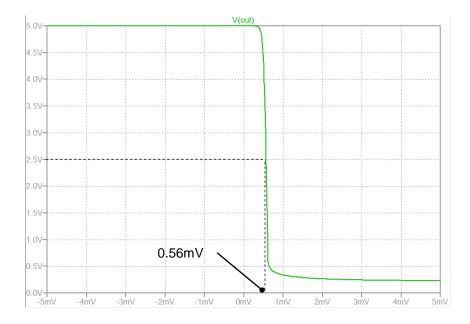
Input Offset Voltage Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes -: simulated

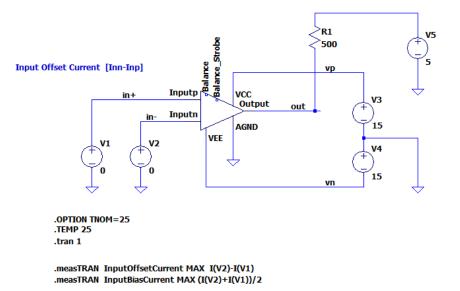
Input Offset Voltage





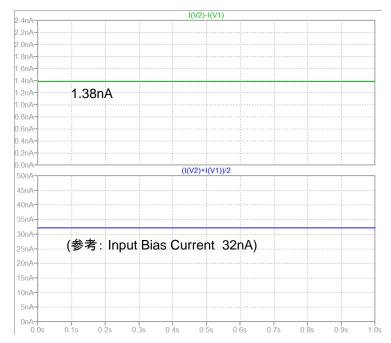
Input Offset Current Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

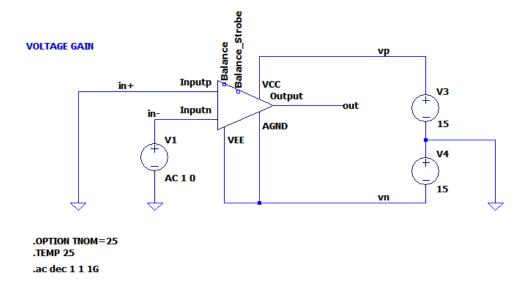
Input Offset Current





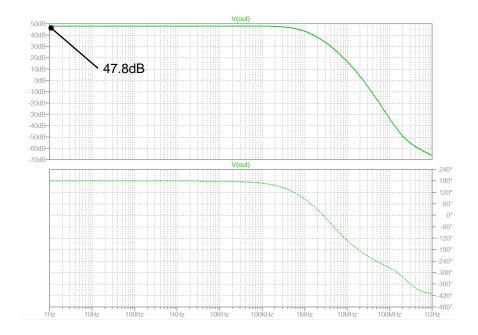
Voltage Gain Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes — : simulated

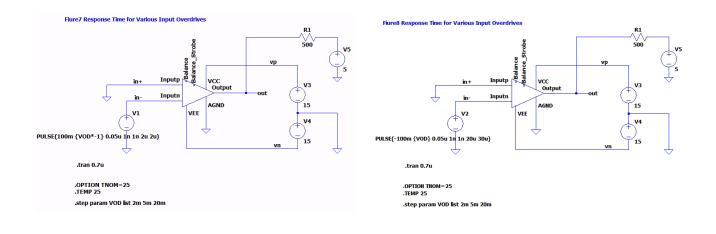
Voltage Gain





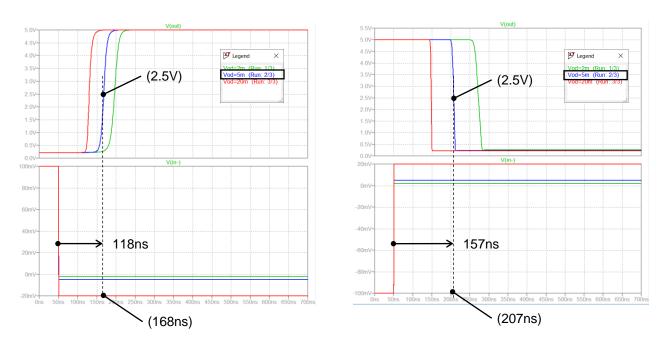
Response Time Testbench

Referred to Data Sheet



Simulation results are following. Explanatory notes - : simulated

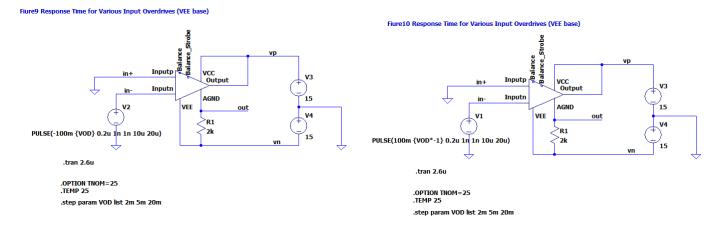
Response Time





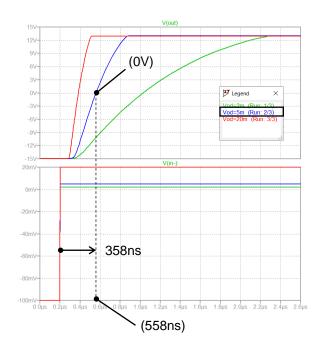
Response Time Testbench

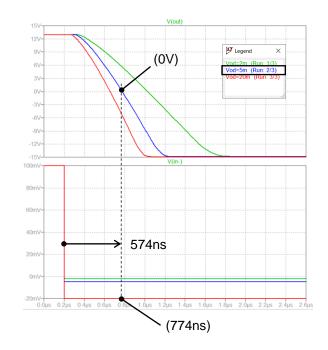
Referred to Data Sheet



Simulation results are following. Explanatory notes -: simulated

Response Time



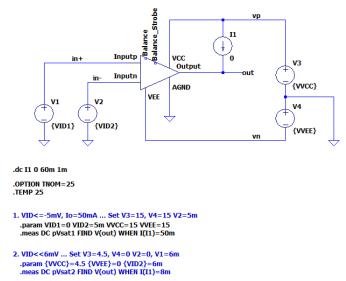




Saturation Voltage Testbench

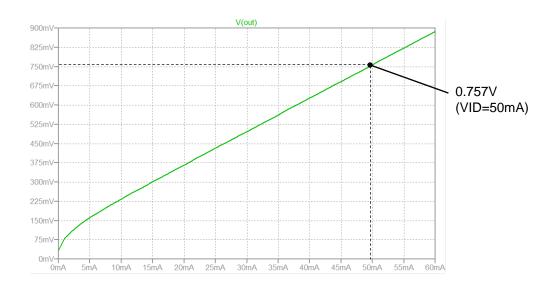
Referred to Data Sheet

Fiure12 Output Saturation Voltage versus Output Current



Simulation results are following. Explanatory notes — : simulated

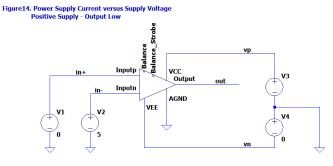
Saturation Voltage



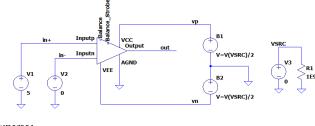


Power Supply Current Testbench

Referred to Data Sheet



.dc V3 0 30 0.1 .OPTION TNOM=25 .TEMP 25



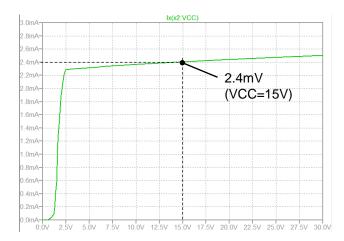
.dc V3 0 30 0.1 .OPTION TNOM=25 .TEMP 25

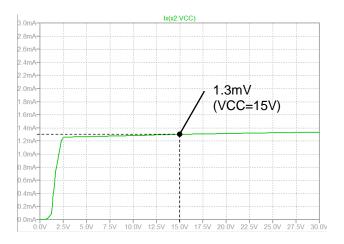
Fig

re14. Power Supply Current versus Supply Voltage Positive and Negative Power Supply - Output High

Simulation results are following. Explanatory notes — : simulated

Power Supply Current







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