LTspice Model
LDO(Low Drop Out）
NewJRC
NJM2855DL1-05

Model Information

Model	A macro model
Call Name	MDC_NJM2855DL1-05_LT
Pin Assign	1:VIN 2:GND 3:VOUT
File List	Model Library MDC_NJM2855DL1-05_LT.lib
	Model Report MDC_NJM2855DL1-05_LT.pdf(this file)
Verified Simulator Version	LTspice XVII
Note	

References

The information which was used for modeling is as follow:

[Data Sheet]

- ●Date/Version Ver.2012-10-24
- ●Product name NJM2855DL1-05
- ●Company name New Japan Radio CO., LTD.

[Characteristics listed]

●Characteristics
Dropout Voltage-Iout
Vout-Vin
Load regulation
Line regulation
Vout-Iout
Ignd-Iout

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C

© 2021 MoDeCH inc.

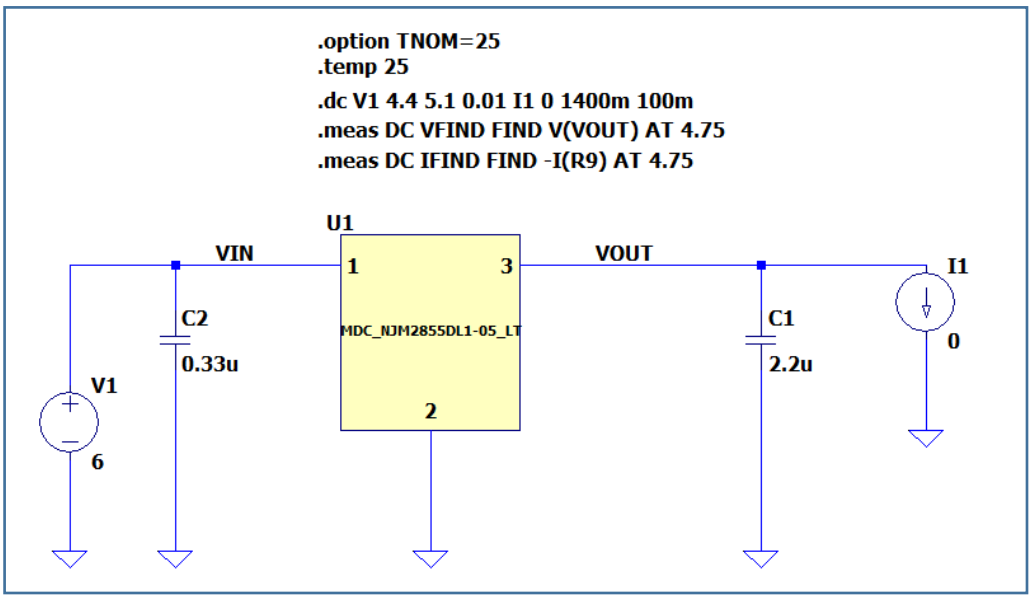
Model Functions Table

Functions	Implemented
Output Voltage	○
Current Limit	○
Output drop voltage	○
Ground Current	○

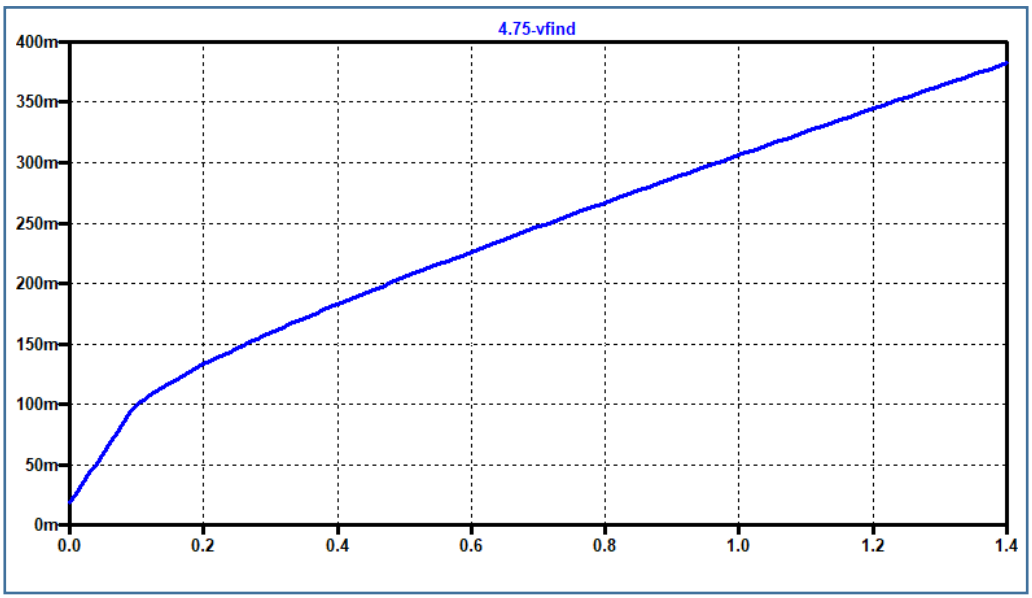
© 2021 MoDeCH inc.

Dropout Voltage-IOUT

TestBench



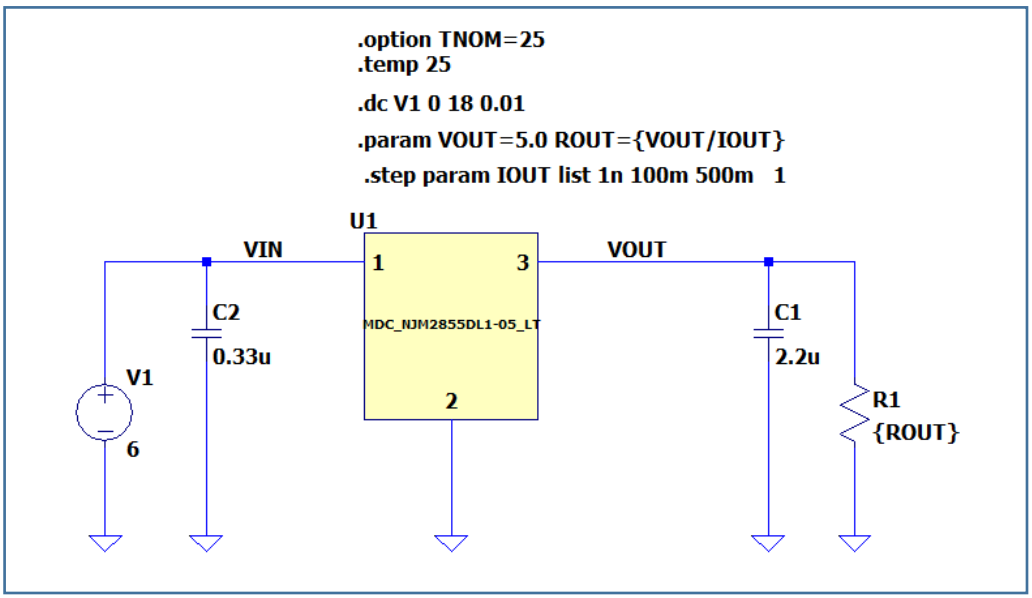
Simulation results are following.
Explanatory notes — : simulated



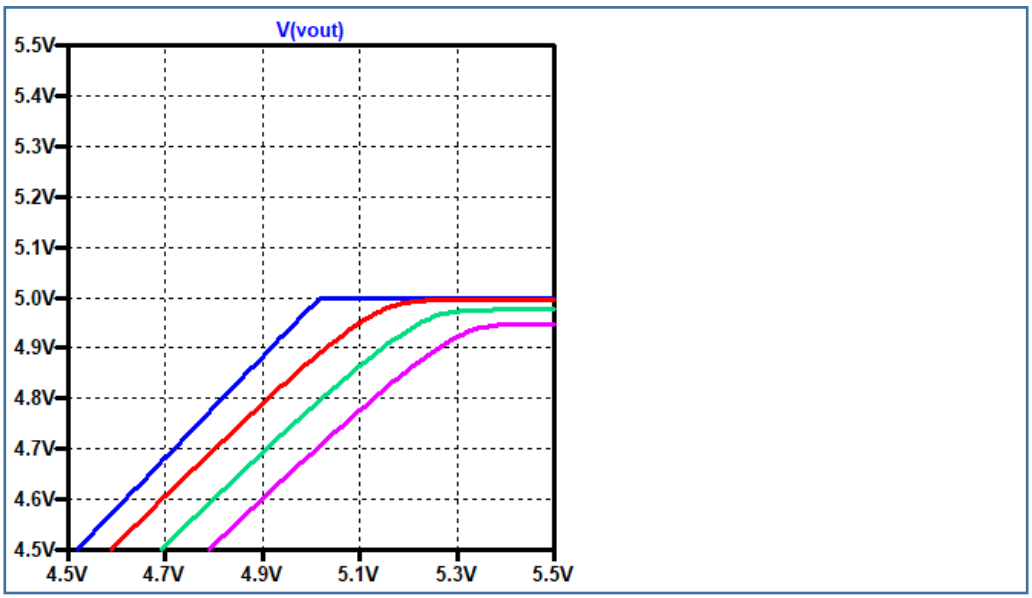
© 2021 MoDeCH inc.

Vout-Vin

TestBench



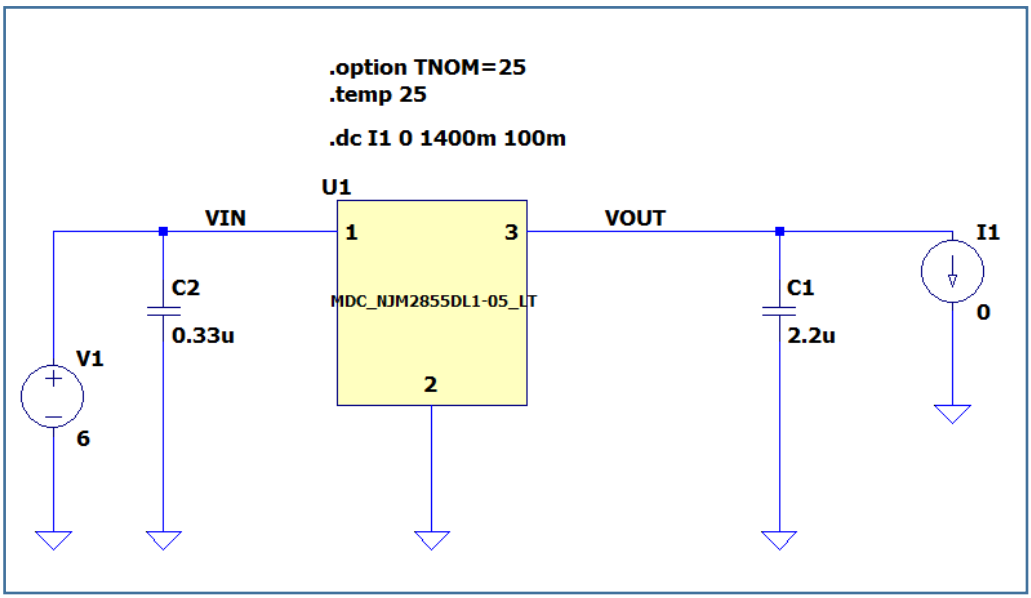
Simulation results are following.
Explanatory notes — : simulated



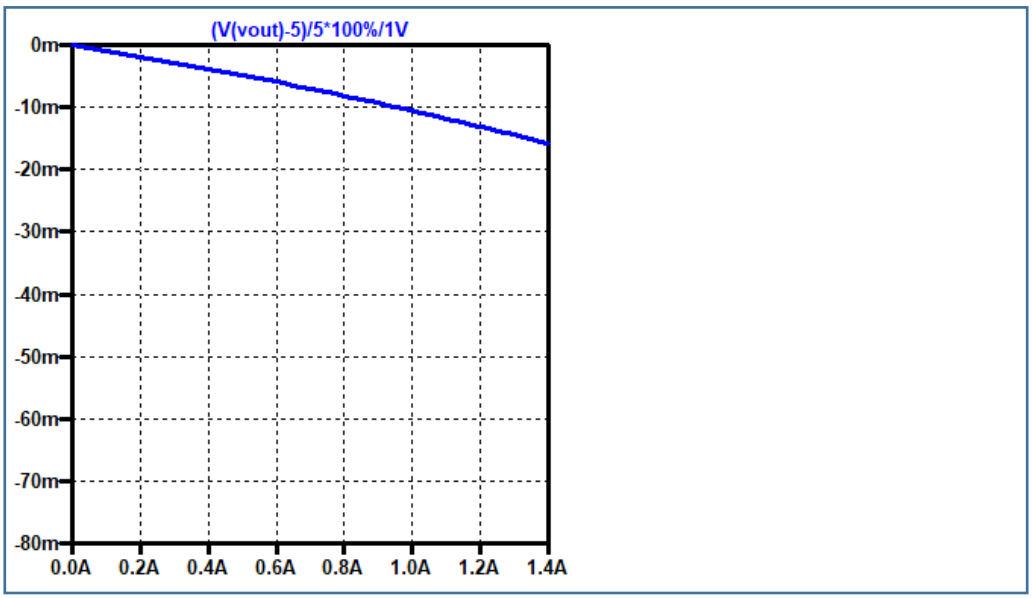
© 2021 MoDeCH inc.

Load regulation

TestBench



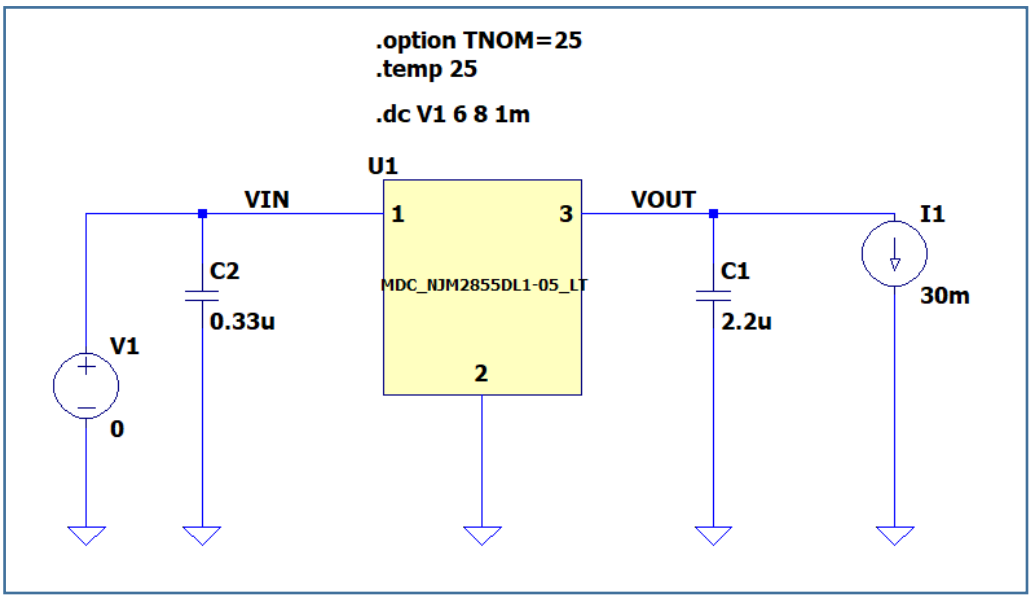
Simulation results are following.
Explanatory notes — : simulated



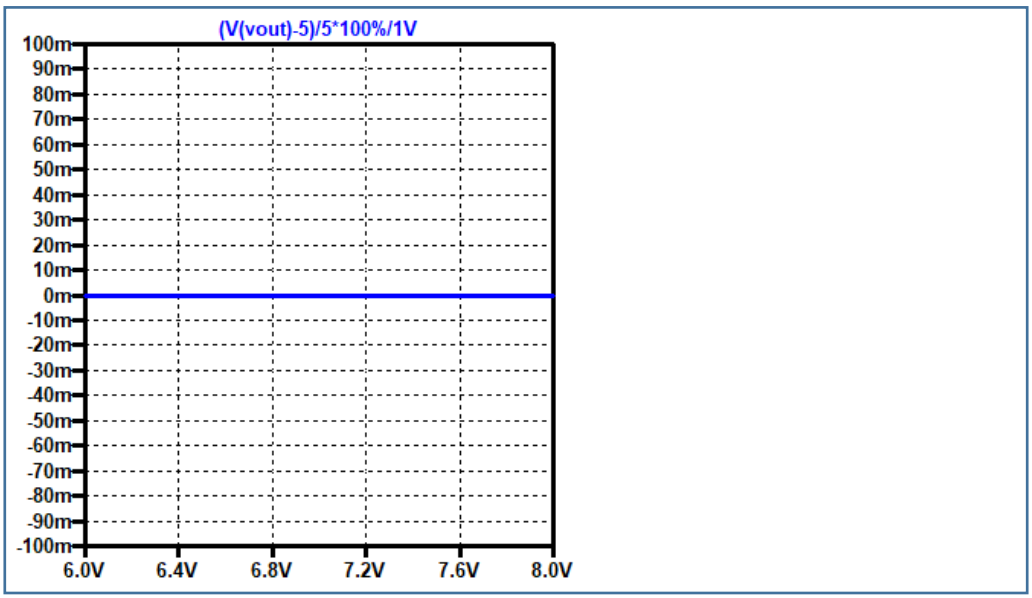
© 2021 MoDeCH inc.

Line regulation

TestBench



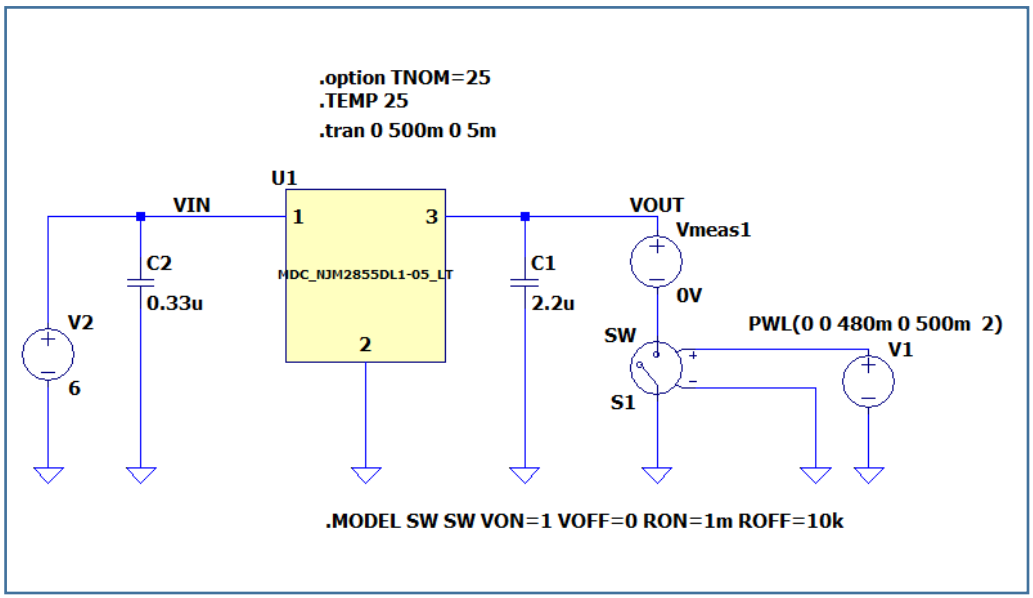
Simulation results are following.
Explanatory notes — : simulated



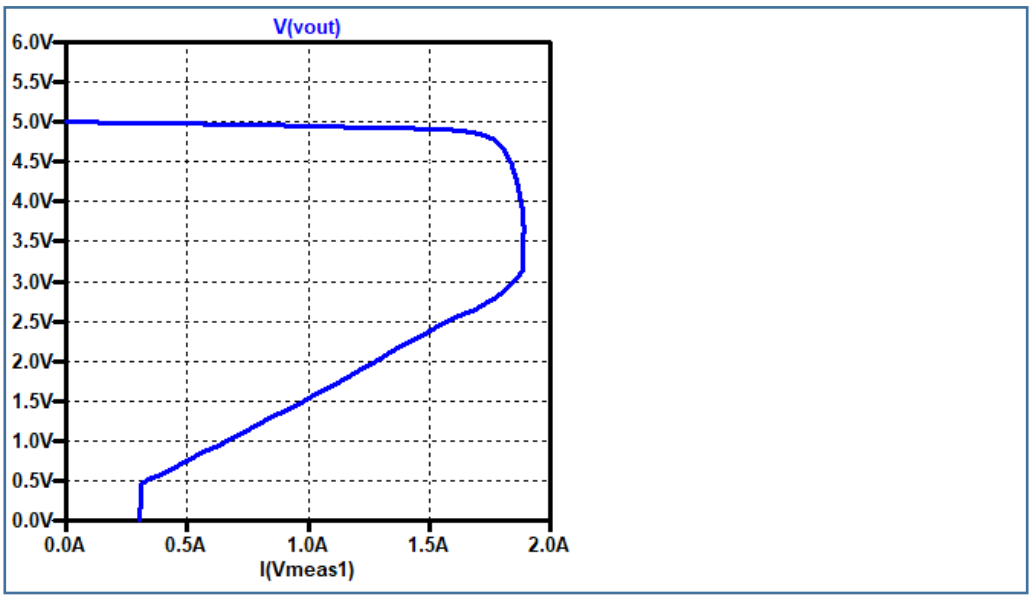
© 2021 MoDeCH inc.

Vout-Iout

TestBench



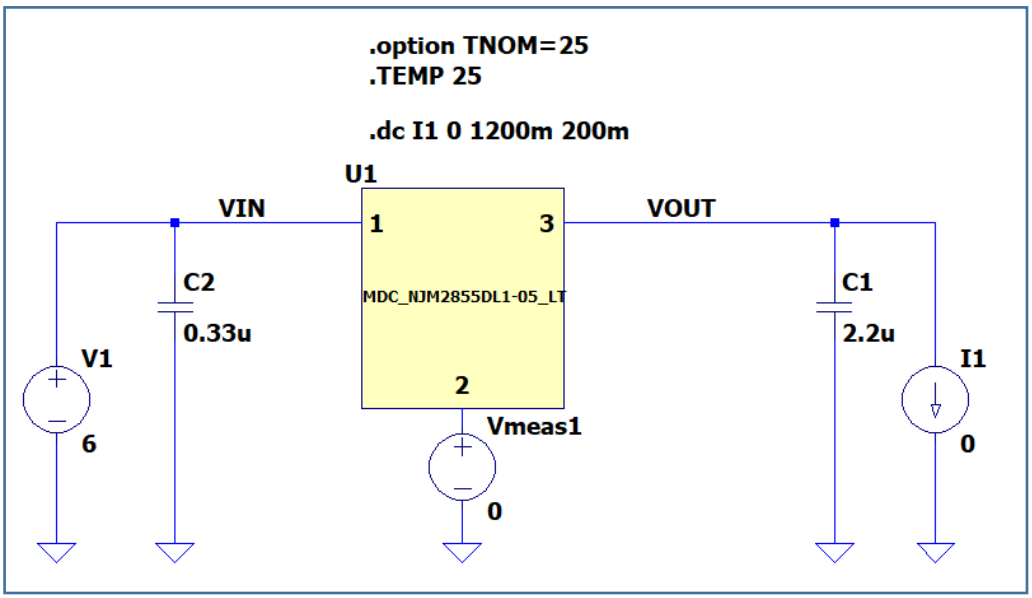
Simulation results are following.
Explanatory notes — : simulated



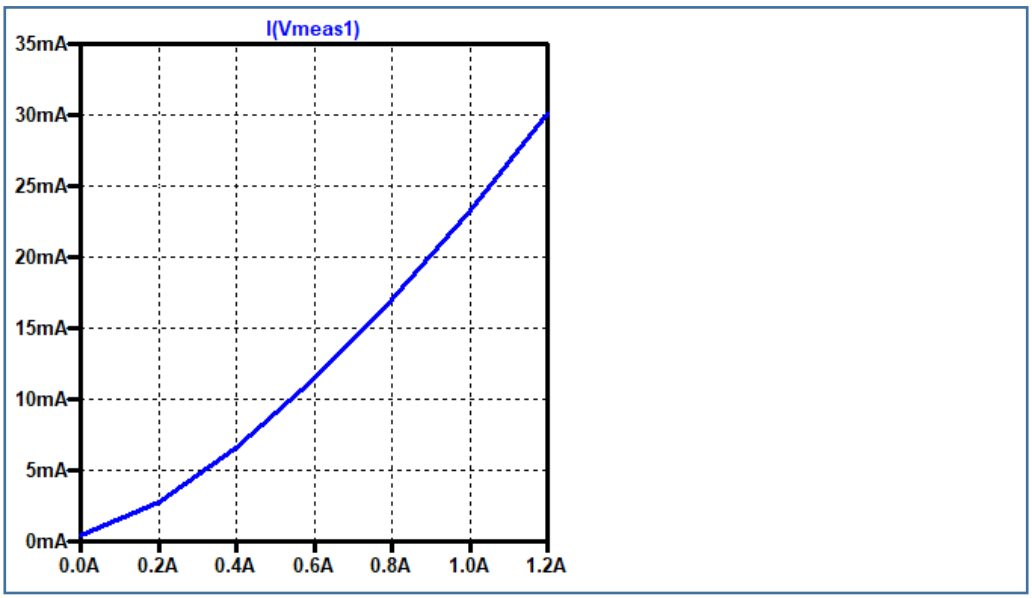
© 2021 MoDeCH inc.

Ignd-Iout

TestBench



Simulation results are following.
Explanatory notes — : simulated



© 2021 MoDeCH inc.

DISCLAIMER

1. This SPICE (Simulation Program with Integrated Circuit Emphasis) model and its content (the “Contents”) are copyright of MoDeCH Inc. All rights reserved. Any redistribution or reproduction of any or all part of the Contents in any form is prohibited without express written permission made by MoDeCH Inc.
2. MoDeCH Inc. as licensor (the” Licensor”) hereby grants to you, as licensee (the “Licensee”), a non-exclusive, non-transferable license to use the Contents as long as you abide by the terms and conditions of this DISCLAIMER.
3. The Licensee is not authorized to sell, loan, rent and redistribute or license the Contents in whole or in part, or in modified form, to anyone.
4. The Licensor shall in no way be liable to the Licensee or any third party for any loss or damage (including ,but not limited to, lost profits, or other incidental, consequential, or punitive damages), however caused (including through negligence) which may be directly or indirectly suffered from, arising out of, or in connection with, any use of the Contents .
5. Notwithstanding anything contained in this DISCLAIMER, in no event shall Licensor be liable for any claims, damages or loss which may arise from the modification, combination, operation or use of the Contents with the Licensee’s computer programs.
6. The Licensor does not warrant that the Contents will function in any environment.
7. The Contents may be changed or updated without notice. MoDeCH Inc. may also make improvements and/or changes in the products, pricing and/or the programs related to the Contents at any time without notice.

Modeling Design Technology

MoDeCH Inc.

Head Office
Location: 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan
Tel:+81-42-656-3360
E-Mail:model-on-support@modech.co.jp
URL:http://www.modech.com/en/

© 2021 MoDeCH inc.