

PSpice Model Intelligent Power Device(Nch) Infineon BTS3410G

Model Information

Model An original macro model
Call Name MDC_BTS3410G_PS
Pin Assign 1:Drain 2:In 3:Source
File List Model Library MDC_BTS3410G_PS01.lib
 Model Report MDC_BTS3410G_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. 1.3
- Product name BTS3410G
- Company name Infineon Technologies AG
- Characteristics IdVgs[Temp], IdVds[Vgs], Rds(on)Temp[Vgs], VthTemp[Id]

Simulation Range

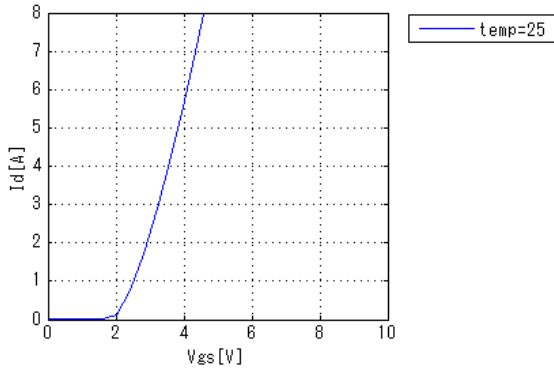
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

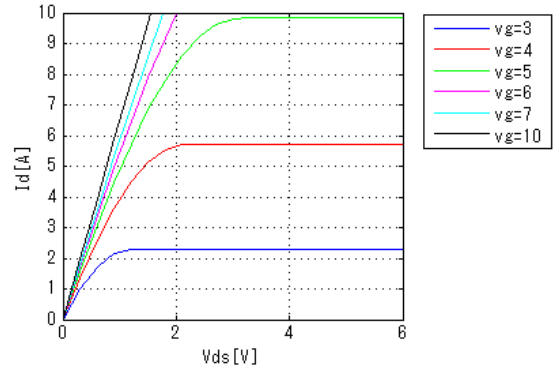
IdVgs[Temp]

Vd = 12V



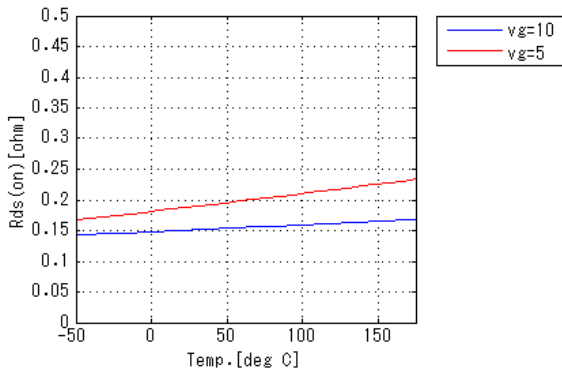
IdVds[Vgs]

Temp. = 25deg C



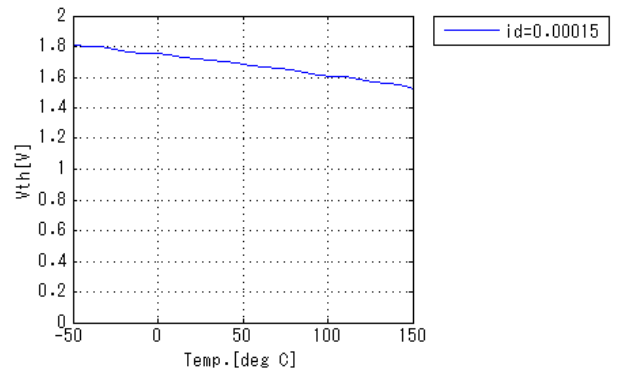
Rds(on)Temp[Vgs]

Id = 1.4A



VthTemp[Id]

Vd = 12V



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