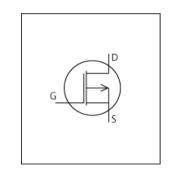


LTspice Model PMOS ON 2SJ652-1E



Model Information

Model A macro model based on BSIM3 model

Call Name MDC_2SJ652-1E_LT

Pin Assign 1:D 2:G 3:S

File List Model Library MDC_2SJ652-1E_LT01.lib

Model Report MDC_2SJ652-1E_LT.pdf (this file)

Verified Simulator Version

Note

LTspice version XVII

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version NoneProduct name 2SJ652-1E

Company name ON Semiconductor.

● Characteristics IdVds[Vgs],IdVgs[Temp],Rds(on)Vgs[Temp],Rds(on)Temp[V

Simulation Range

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

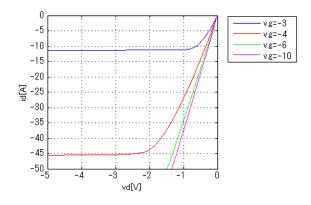
Item	Range			Unit
	Min.		Max.	
Drain-source voltage (DC)	0	to	-60	V
Gate-source voltage (DC)	0	to	-20	V
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

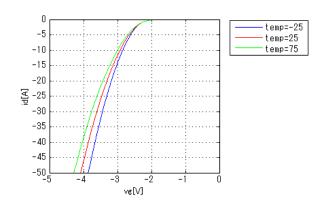
IdVds[Vgs]

Temp. = 25deg C



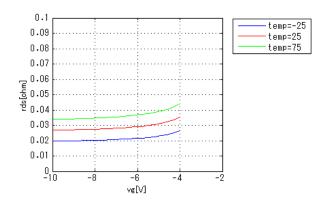
IdVgs[Temp]

Vds = -10V



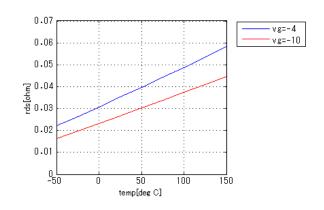
Rds(on)Vgs[Temp]

Id = -14A



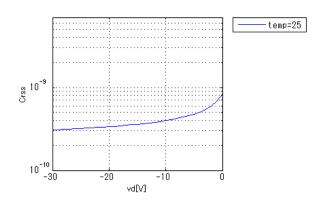
Rds(on)Temp[Vgs]

Id = -14A



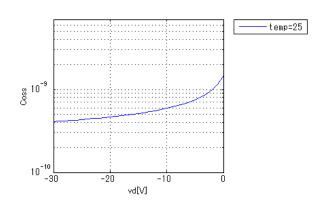
Crss

Freq. = 1MHz



Coss

Freq. = 1MHz

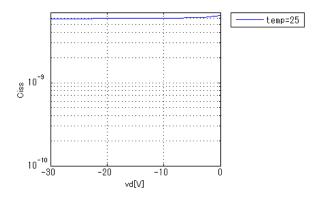




Simulation results are following. Explanatory notes — : simulated

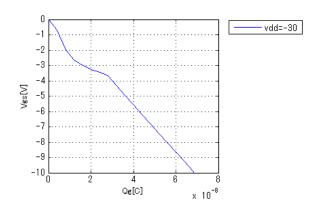
Ciss

Freq. = 1MHz

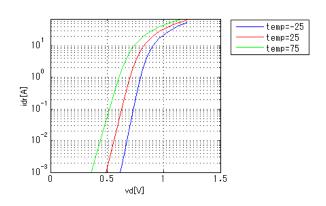


VgsQg[Vdd]

Id = -28A

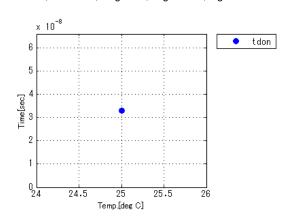


IsVsd[Temp]



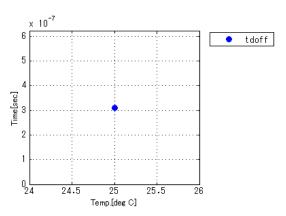
tdon

Vdd = -30V, Id = -14A, +Vg = 0V, -Vg = -10V, Rg = 0.001ohm



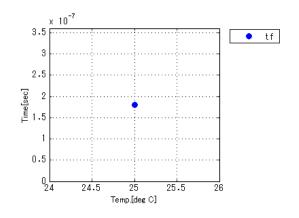
tdoff

Vdd = -30V, Id = -14A, +Vg = 0V, -Vg = -10V, Rg = 0.001ohm



tf

Vdd = -30V, Id = -14A, +Vg = 0V, -Vg = -10V, Rg = 0.001ohm

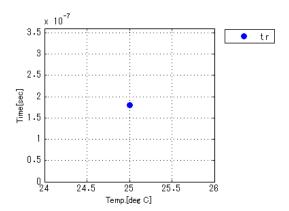




Simulation results are following. Explanatory notes — : simulated

tr

Vdd = -30V, Id = -14A, +Vg = 0V, -Vg = -10V, Rg = 0.001ohm





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