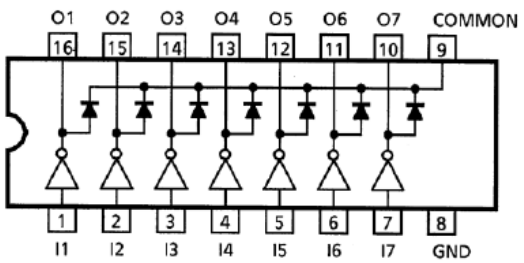
PSpice Model
ARRAY
TOSHIBA
TBD62003AFWG

(top view)



Model Information

Model	An original macro model	
Call Name	MDC_TBD62003AFWG_PS	
Pin Assign	1:I1 2:I2 3:I3 4:I4 5:I5 6:I6 7:I7 8:GND 9:COM 10:O7 11:O6 12:O5 13:O4 14:O3 15:O2 16:O1	
File List	Model Library	MDC_TBD62003AFWG_PS01.lib
	Model Report	MDC_TBD62003AFWG_PS.pdf (this file)
Verified Simulator Version		PSpice version 17.2
Note		

References

The information which was used for modeling is as follow:

[Data Sheet]

- ●Date/Version 2015-07-24
- ●Product name TBD62003AFWG
- ●Company name Toshiba Corporation
- ●Characteristics IleakVout[Temp],RonIout[Temp],IinVin[Temp],IinVin[Temp]2, IrVr[Temp],VfIf[Temp],SwVout[Tname]

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

ARRAY

○ : Implemented
× : Not Implemented
— : Not applicable

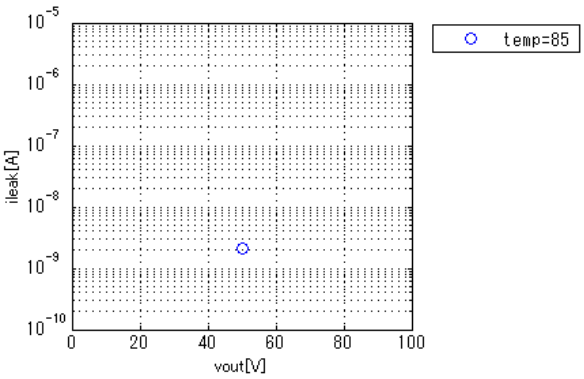
Model Functions Table

RANK=1

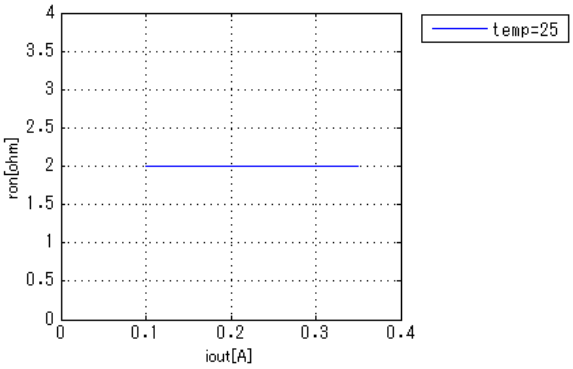
Functions	RANK	Implemented
Ileak-Vout	1	○
Ron-Iout	1	○
Iin-Vin	1	○
Ir-Vr	1	○
Vf-If	1	○
Sw-Vout	1	○

Simulation results are following.
Explanatory notes — : simulated

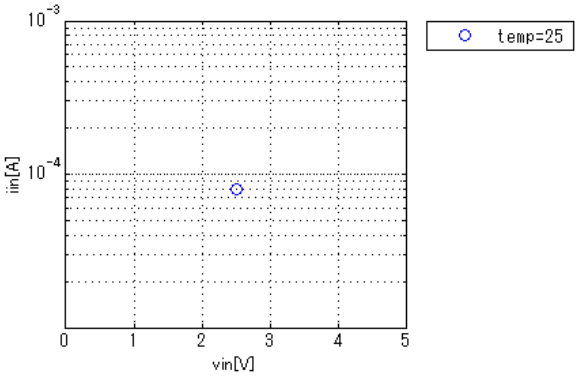
IleakVout[Temp]
vin = 0V, icom = 0A



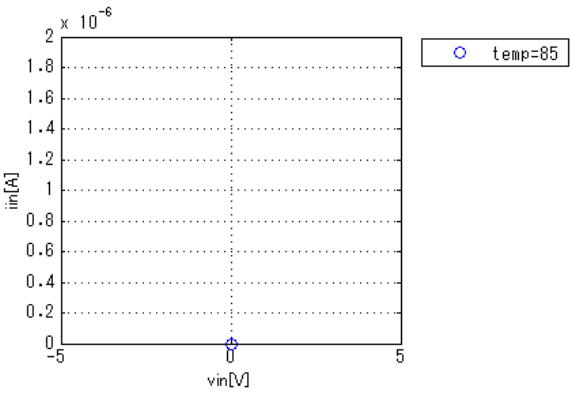
RonIout[Temp]
vin = 5V, icom = 0A



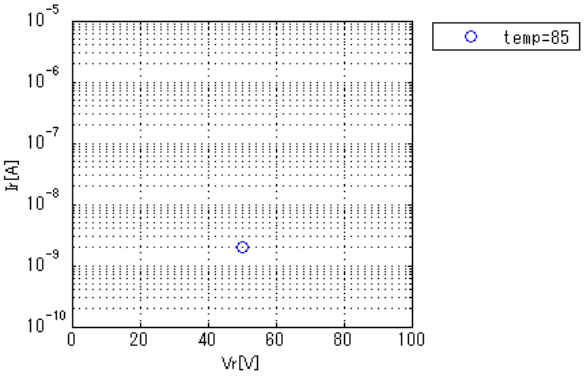
IinVin[Temp]
iout = 0A, icom = 0A



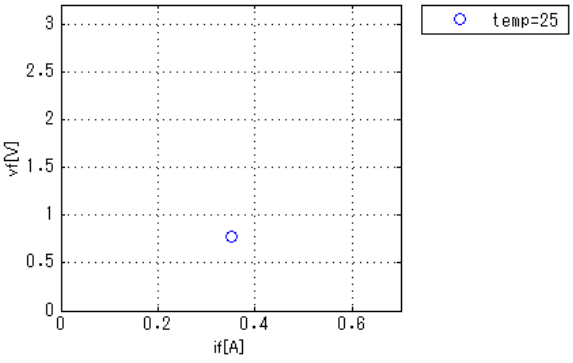
IinVin[Temp]2
iout = 0A, icom = 0A



IrVr[Temp]
iin = 0A, ignd = 0A



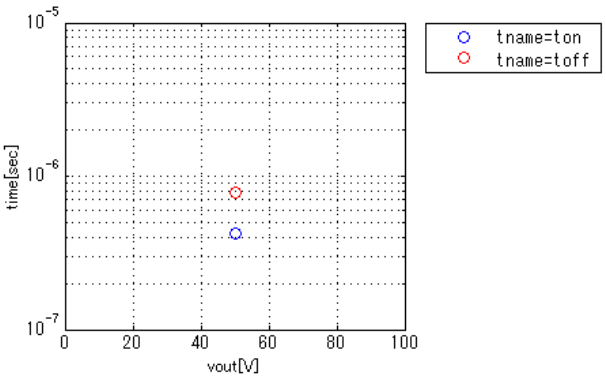
VfIf[Temp]
iin = 0A, ignd = 0A



Simulation results are following.
Explanatory notes — : simulated

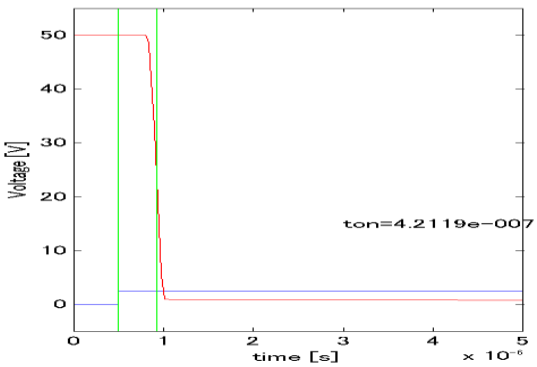
SwVout[Tname]

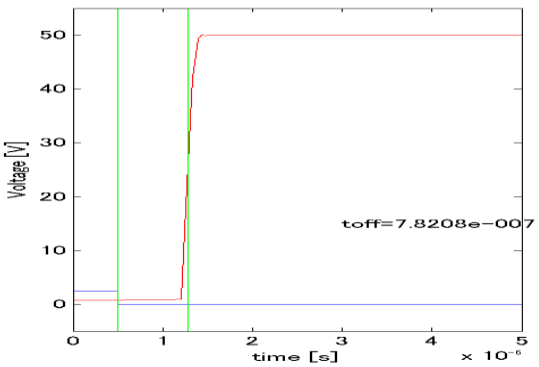
vin = 2.5V, RG = 5ohm, RL = 125ohm, icom = 0A, temp = 25degC



Switching Waveform (Blue : INPUT Red : OUTPUT)

vin = 2.5V, vout = 50V, RG = 5ohm, RL = 125ohm, icom = 0A, temp = 25degC





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