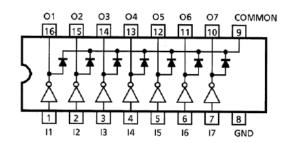


ADS Model ARRAY TOSHIBA TBD62003AFWG

(top view)



Model Information

Model An original macro model
Call Name MDC TBD62003AFWG AD

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_AD.zip

Model Report MDC_TBD62003AFWG_AD.pdf (this file)

Verified Simulator Version

Note

ADS version 2022 Update 1

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version
 Product name
 Company name
 2015-07-24
 TBD62003AFWG
 Toshiba Corporation

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



Model Functions Table

ARRAY

O: Implemented

×: Not Implemented

—: Not applicable

RANK=1

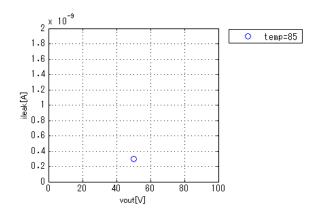
	10 (14)(2	
Functions	RANK	Implemented
Ileak-Vout	1	0
Ron-Iout	1	0
Iin-Vin	1	0
Ir-Vr	1	0
Vf-If	1	0
Sw-Vout	1	0



Simulation results are following. Explanatory notes — : simulated

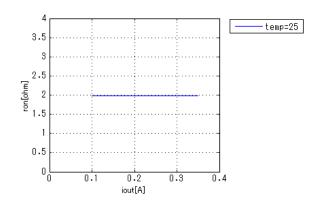
IleakVout[Temp]

vin = 0V, icom = 0A



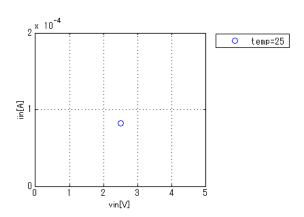
Ronlout[Temp]

vin = 5V, icom = 0A



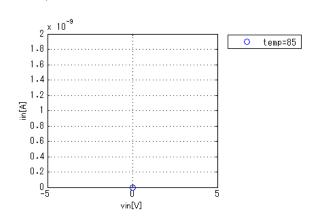
linVin[Temp]

iout = 0A, icom = 0A



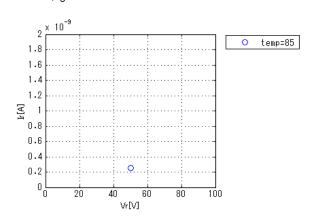
linVin[Temp]2

iout = 0A, icom = 0A



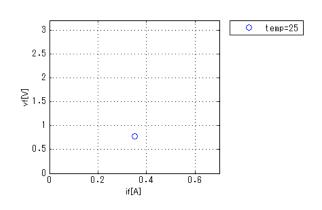
IrVr[Temp]

iin = 0A, ignd = 0A



Vflf[Temp]

iin = 0A, ignd = 0A



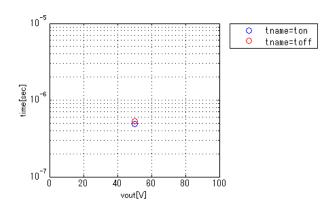


Simulation results are following.

Explanatory notes — : simulated

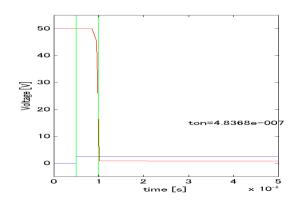
SwVout[Tname]

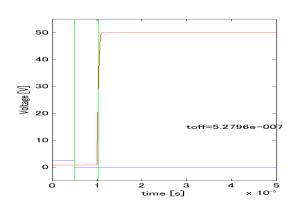
vin = 2.5V, vout = 50V, RG = 50hm, RL = 1250hm, icom = 0A, temp = 25degC



Switching Waveform (Blue: INPUT Red: OUTPUT)

vin = 2.5V, vout = 50V, RG = 50hm, RL = 1250hm, icom = 0A, temp = 25degC







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