

PSpice Model Photocoupler Tr. Output ON FODM8801B

Model Information

Model An original macro model Call Name MDC_FODM8801B_PS

Pin Assign 1:Anode 2:Cathode 3:Emitter 4:Collector

File List Model Library MDC_FODM8801B_PS01.lib

Model Report MDC_FODM8801B_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version 1.2

Product nameCompany nameFODM8801BON Semiconductor.

● Characteristics If Vf[Temp], IcVce[If], IcIf[Vce], IcTemp[If], SwitchingTime, Switc

hingTime2,SwitchingTime3

Simulation Range

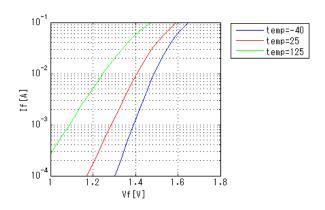
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward current (DC)	0	to	0.02	Α
Collector-emitter voltage (DC)	0	to	75	V
Temperature	-40	to	150	deg C



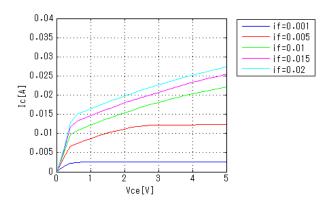
Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]



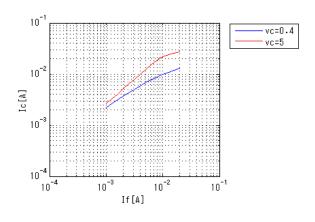
IcVce[If]

Temp. = 25deg C



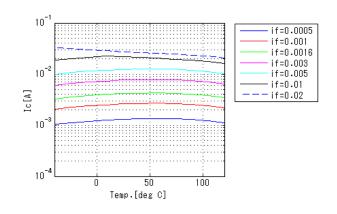
Iclf[Vce]

Temp. = 25deg C



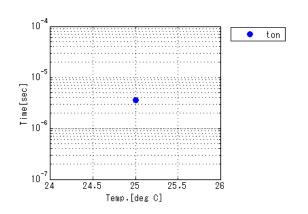
IcTemp[If]

Vc = 5V



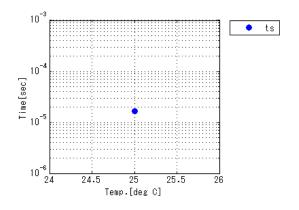
SwitchingTime

+If = 0.0016A, -If = 0A, Vc = 5V, RI = 100000hm



SwitchingTime2

+If = 0.0016A, -If = 0A, Vc = 5V, RI = 100000hm

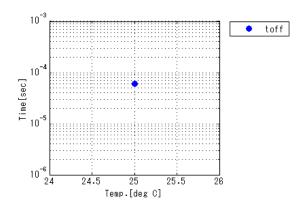




Simulation results are following. Explanatory notes — : simulated

SwitchingTime3

+If = 0.0016A, -If = 0A, Vc = 5V, RI = 100000hm





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