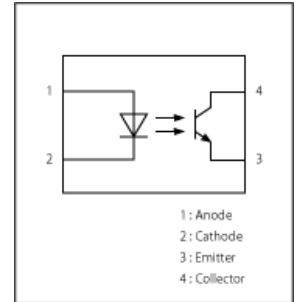


PSpice Model

Photocoupler Tr. Output

RENESAS

PS2801C-4



Model Information

Model An original macro model
Call Name MDC_PS2801C-4_PS
Pin Assign 1:Anode 2:Cathode 3:Emitter 4:Collector
File List Model Library MDC_PS2801C-4_PS01.lib
 Model Report MDC_PS2801C-4_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 4.00
- Product name PS2801C-4
- Company name Renesas Electronics Corporation
- Characteristics IfVf[Temp],IcVce[If],hFEIf[Vce],TimeTemp,TimeTemp2,TimeTemp3

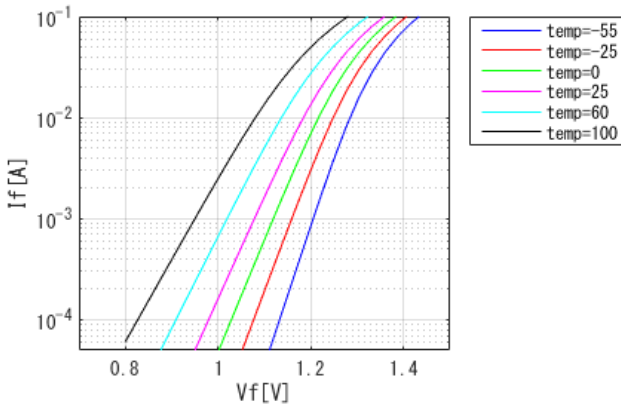
Simulation Range

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	0.03	A
Collector-emitter voltage (DC)	0	to	80	V
Temperature	-55	to	150	deg C

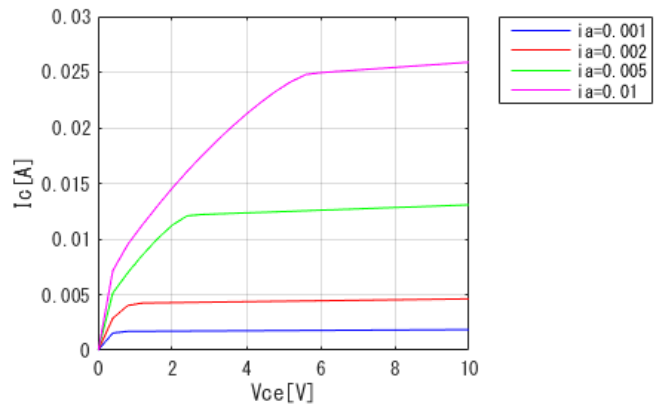
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



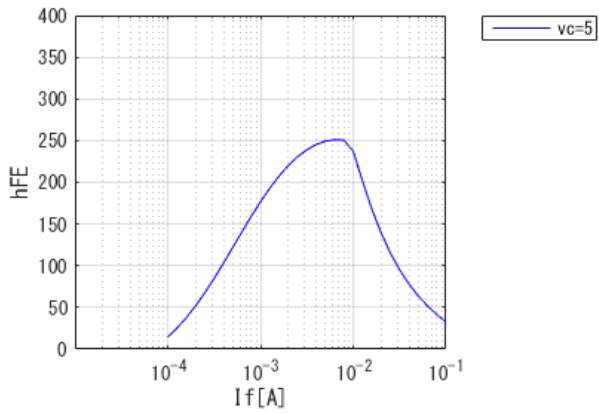
IcVce[If]

temp = 25



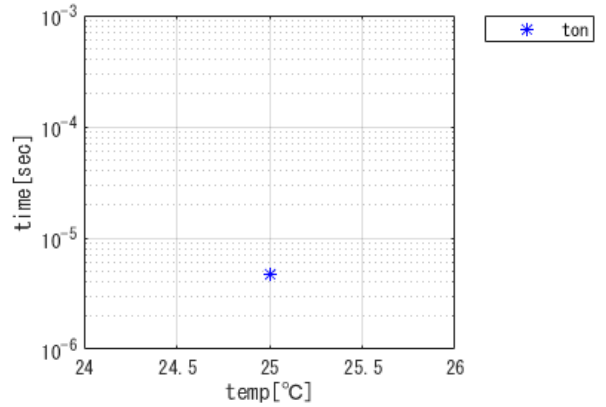
hFEIf[Vce]

temp = 25



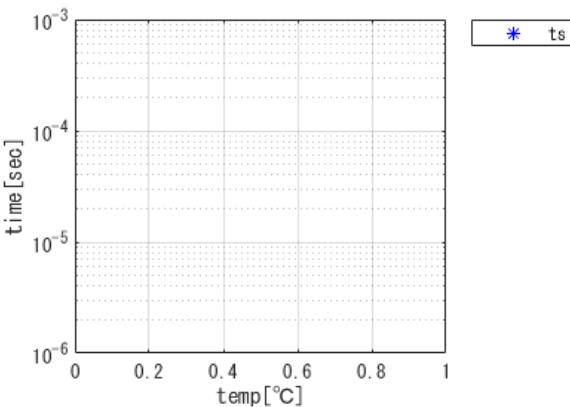
TimeTemp

+Ia = 0.005, -Ia = 0, Vc = 5, RI = 1000



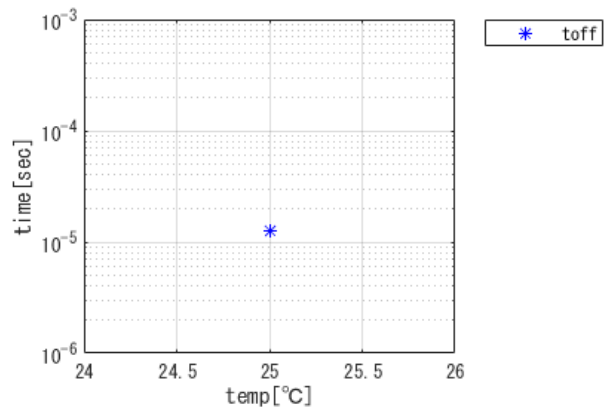
TimeTemp2

+Ia = 0.005, -Ia = 0, Vc = 5, RI = 1000



TimeTemp3

+Ia = 0.005, -Ia = 0, Vc = 5, RI = 1000



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