

PSpice Model Photocoupler IC Output TOSHIBA TLP2766

Model Information

Model An original macro model
Call Name MDC_TLP2766_PS
Pin Assign 1:Anode 3:Cathode 4:GND 5:VO 6:VCC
File List Model Library MDC_TLP2766_PS01.lib
 Model Report MDC_TLP2766_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 Rev.5.0
- Product name TLP2766
- Company name Toshiba Corporation
- Characteristics IfVf[Temp],IcchTemp[Vcc],IcclTemp[Vcc],IfhITemp[Vcc],SwitchingTemp,SwitchingIf,SwitchingVcc

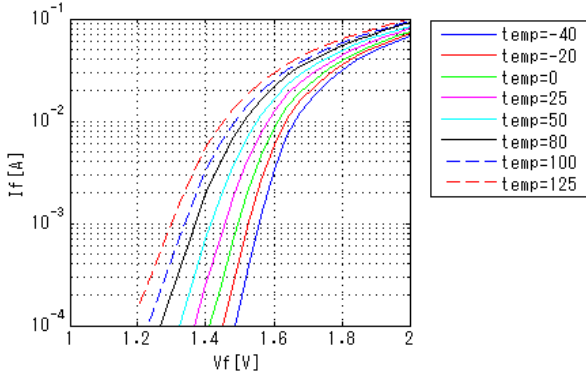
Simulation Range

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

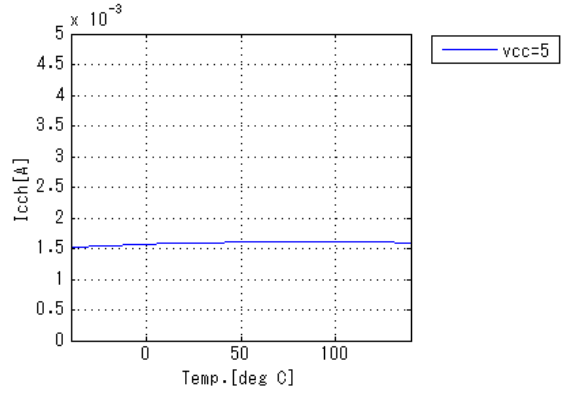
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



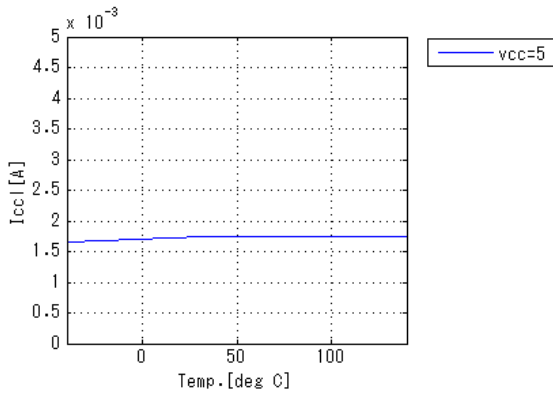
IcchTemp[Vcc]

If = 0A



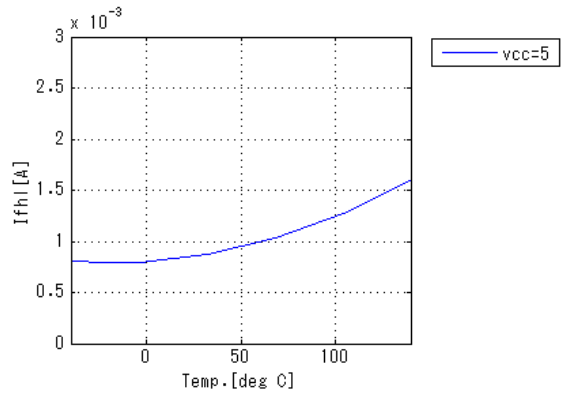
IccTemp[Vcc]

If = 0.006A



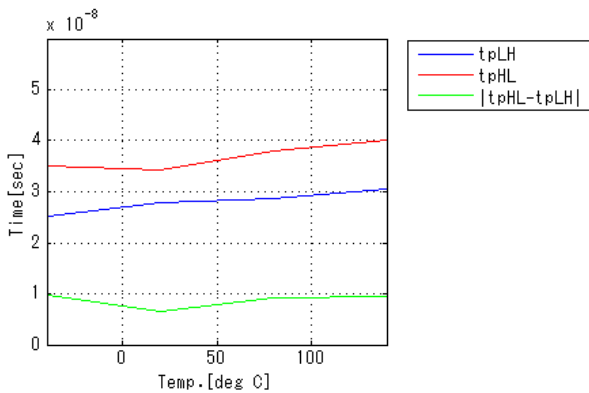
IfhTemp[Vcc]

Io = 0.0016A



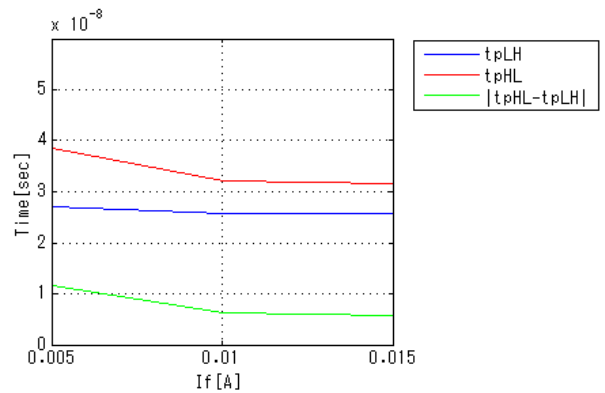
SwitchingTemp

Freq. = 5000000Hz, Duty = 50%, If = 0.006A, Vcc = 5V



SwitchingIf

Freq. = 5000000Hz, Duty = 50%, Vcc = 5V

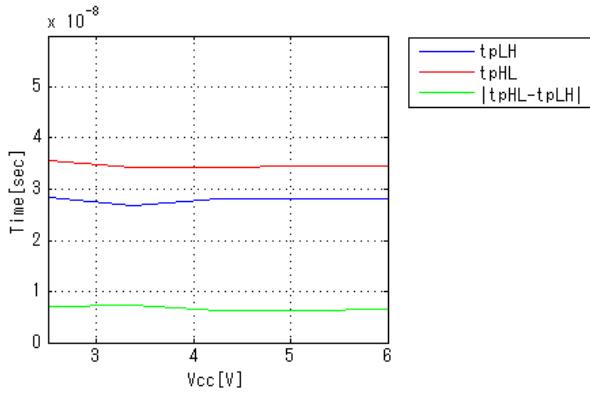


Simulation results are following.

Explanatory notes — : simulated

SwitchingVcc

Freq. = 5000000Hz, Duty = 50%, If = 0.006A



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