

PSpice Model Photocoupler IC Output TOSHIBA TLP350HF

Model Information

Model An original macro model Call Name MDC_TLP350HF_PS

Pin Assign 1:Anode 3:Cathode 4:GND 5:VO 6:VCC

File List Model Library MDC_TLP350HF_PS01.lib

Model Report MDC_TLP350HF_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 Rev.8.0Product name TLP350HF

Company nameToshiba Corporation

pl[Temp], Vohvccloph[Temp], SwitchingTemp, SwitchingIf, SwitchingIf,

chingVcc

Simulation Range

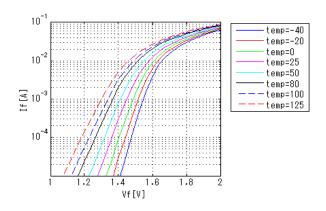
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Temperature	-40	to	125	deg C



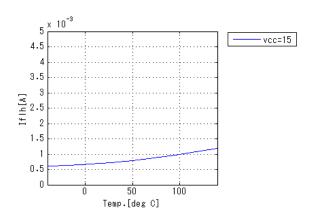
Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]



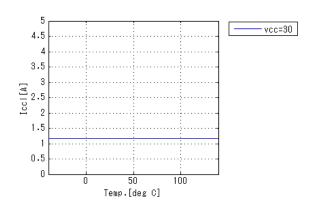
IfIhTemp[Vcc]

Vo = 1V



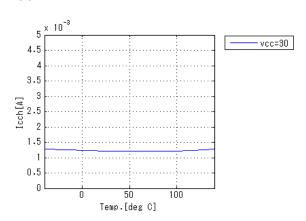
IcclTemp[Vcc]

If = 0A



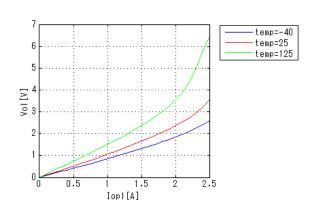
IcchTemp[Vcc]

If = 0.01A



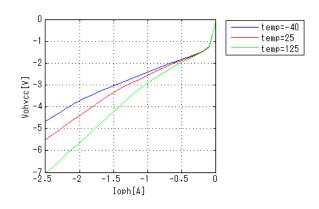
Vollopl[Temp]

Vcc = 15V, If = 0A



Vohvccloph[Temp]

Vcc = 15V, If = 0.005A

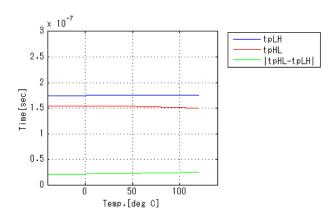




Simulation results are following. Explanatory notes — : simulated

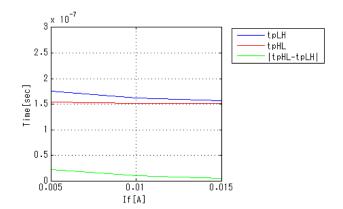
SwitchingTemp

Freq. = 25000Hz, Duty = 50%, If = 0.005A, Vcc = 30V



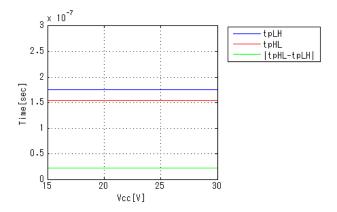
SwitchingIf

Freq. = 25000Hz, Duty = 50%, Vcc = 30V



SwitchingVcc

Freq. = 25000Hz, Duty = 50%, If = 0.005A





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