

PSpice Model Photocoupler IC Output Broadcom HCPL-063N-500E

Model Information

Model An original macro model Call Name MDC_HCPL-063N-500E_PS

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

File List Model Library MDC_HCPL-063N-500E_PS01.lib

Model Report MDC_HCPL-063N-500E_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 Unknown

Product nameCompany nameHCPL-063N-500EBroadcom Ltd.

● Characteristics If Vf[Temp], If Ih Temp[Vcc], Ioh Temp[Vcc], Switching Temp, Swit

chingIf

Simulation Range

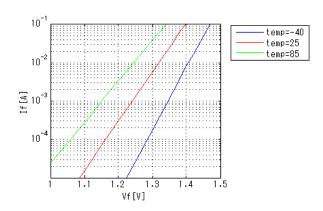
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Temperature	-40	to	85	deg C



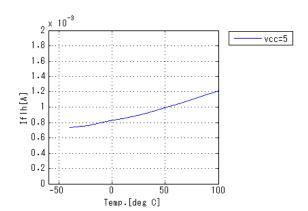
Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]



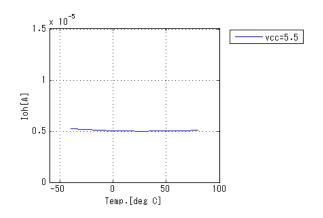
IfIhTemp[Vcc]

Vo = 0.6V



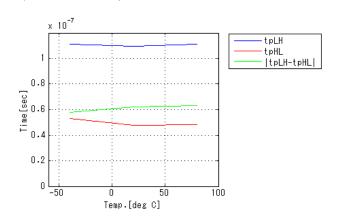
IohTemp[Vcc]

Vf = 0.8V, Vo = 5.5V, RI = 200000hm



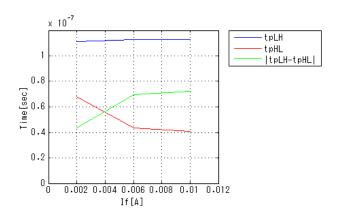
SwitchingTemp

Freq. = 1000000Hz, Duty = 50%, If = 0.0035A, Vcc = 5V



SwitchingIf

Freq. = 1000000Hz, Duty = 50%, Vcc = 5V





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