

PSpice Model Photocoupler IC Output TOSHIBA TLP352F

Model Information

	An original macro model MDC_TLP352F_PS			
Pin Assign	1:Anode 3:Cathode 4:GND 5:VO 6:VCC			
File List	Model Library	MDC_TLP352F_PS01.lib		
	Model Report	MDC_TLP352F_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.7.0
Product name	TLP352F
Company name	Toshiba Corporation
Characteristics	IfVf[Temp],IfIhTemp[Vcc],IcclTemp[Vcc],IcchTemp[Vcc],Vollo pl[Temp],Vohvccloph[Temp],SwitchingTemp,SwitchingIf,Swit chingVcc

Simulation Range

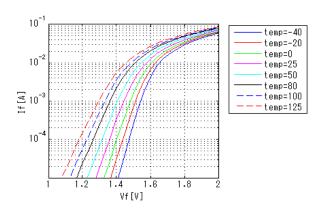
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	F	Unit		
	Min.		Max.	
Temperature	-55	to	150	deg C



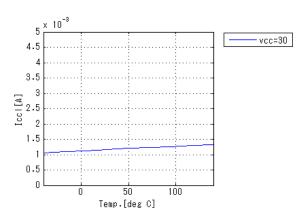
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



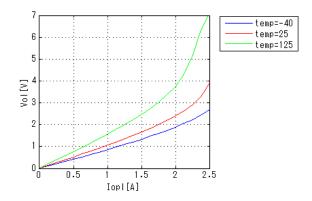
IcclTemp[Vcc]

If = 0A



Vollopl[Temp]

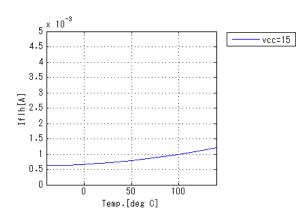
Vcc = 15V, If = 0A



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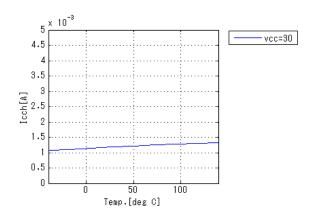
lflhTemp[Vcc]

Vo = 1V



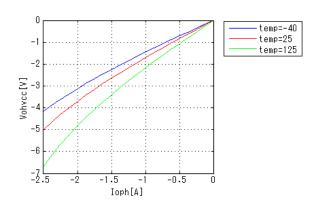
IcchTemp[Vcc]

lf = 0.01A



Vohvccloph[Temp]

Vcc = 15V, If = 0.005A

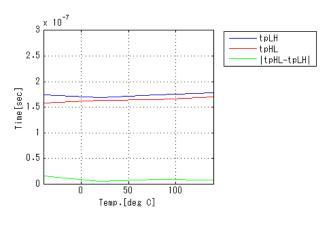




Simulation results are following. Explanatory notes — : simulated

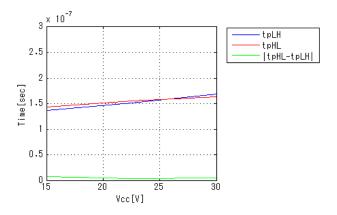
SwitchingTemp

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



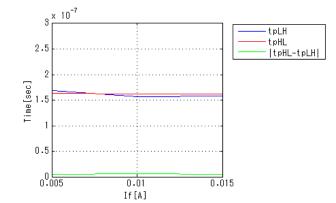
SwitchingVcc

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



SwitchingIf

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





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