

PSpice Model Photocoupler IC Output TOSHIBA TLP2358

Model Information

	An original macro model MDC TLP2358 PS			
Pin Assign	1:Anode 3:Cathode 4:GND 5:VO 6:VCC			
File List	Model Library	MDC_TLP2358_PS01.lib		
	Model Report	MDC_TLP2358_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 5.0
Product name	TLP2358
Company name	Toshiba Corporation
Characteristics	IfVf[Temp],IfhITemp[Vcc],IcclTemp[Vcc],IcchTemp[Vcc],Swit chingIf,SwitchingVcc,SwitchingTemp,IosITemp[Vcc],IoshTe mp[Vcc]

Simulation Range

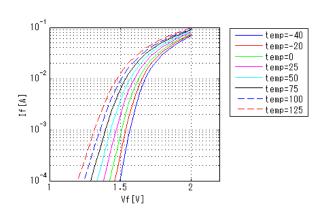
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	F	Unit		
	Min.		Max.	
Temperature	-55	to	125	deg C



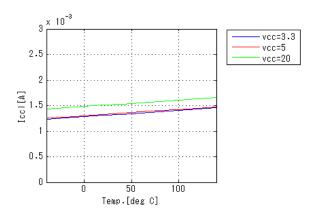
Simulation results are following. Explanatory notes -: simulated

lfVf[Temp]



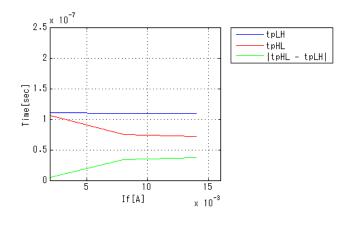
IcclTemp[Vcc]

If = 0.005A



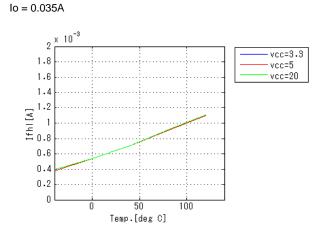
Switchinglf

Freq. = 50000Hz, Duty = 50%, Vcc = 3.3V



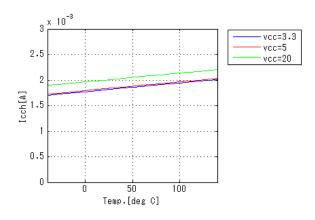
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lfhlTemp[Vcc]



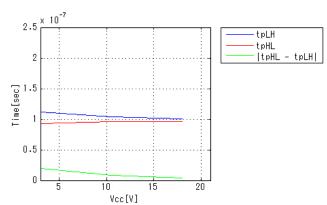
IcchTemp[Vcc]

If = 0A



SwitchingVcc

Freq. = 50000Hz, Duty = 50%, If = 0.003A

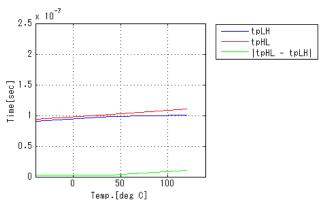




Simulation results are following. Explanatory notes — : simulated

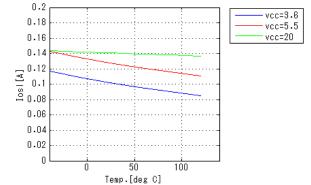
SwitchingTemp

Freq. = 50000Hz, Duty = 50%, If = 0.003A, Vcc = 15V



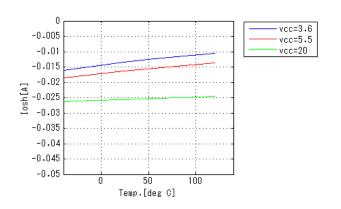
loslTemp[Vcc]

lf = 0.005A



loshTemp[Vcc]

If = 0A





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