

PSpice Model Photocoupler Tr. Output VISHAY TCLT1004

Model Information

Model An original macro model Call Name MDC_TCLT1004_PS

Pin Assign 1:Anode 2:Cathode 3:Emitter 4:Collector

File List Model Library MDC_TCLT1004_PS01.lib

Model Report MDC_TCLT1004_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 2.9

Product name TCLT1004

Company name Vishay Intertechnology, Inc.

Characteristics IfVf[Temp],IcVce[If],IcIf[Vce],hFEIf[Vce]

Simulation Range

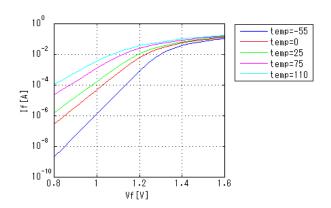
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Forward current (DC)	0	to	0.06	А
Collector-emitter voltage (DC)	0	to	70	V
Temperature	-55	to	125	deg C



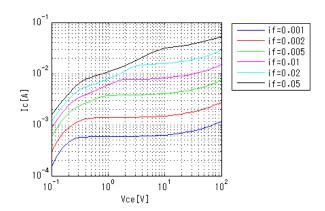
Simulation results are following. Explanatory notes — : simulated

IfVf[Temp]



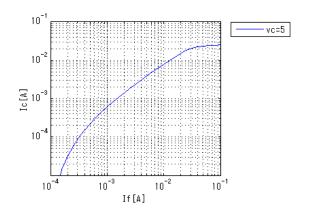
IcVce[If]

Temp. = 25deg C



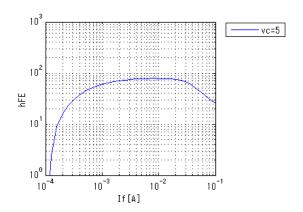
Iclf[Vce]

Temp. = 25deg C



hFElf[Vce]

Temp. = 25deg C





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