

PSpice Model

Photocoupler Tr. Output

VISHAY

TCLT1000

Model Information

Model An original macro model
Call Name MDC_TCLT1000_PS
Pin Assign 1:Anode 2:Cathode 3:Emitter 4:Collector
File List Model Library MDC_TCLT1000_PS01.lib
 Model Report MDC_TCLT1000_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2.9
- Product name TCLT1000
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IcVce[If],IcIf[Vce],hFEIf[Vce]

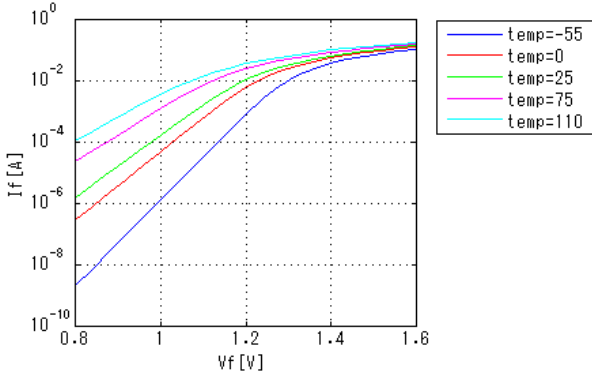
Simulation Range

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	A
Collector-emitter voltage (DC)	0	to	70	V
Temperature	-55	to	125	deg C

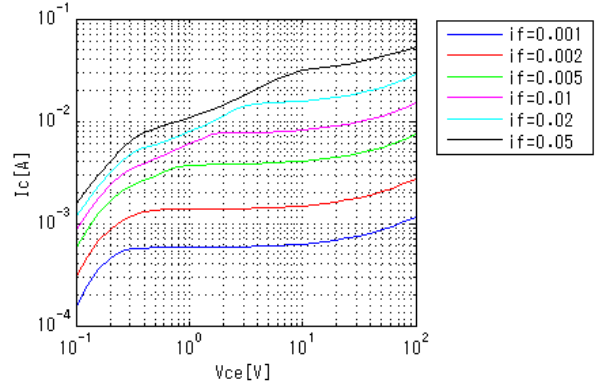
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



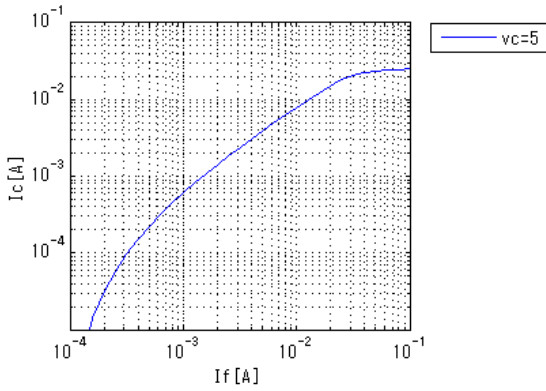
IcVce[If]

Temp. = 25deg C



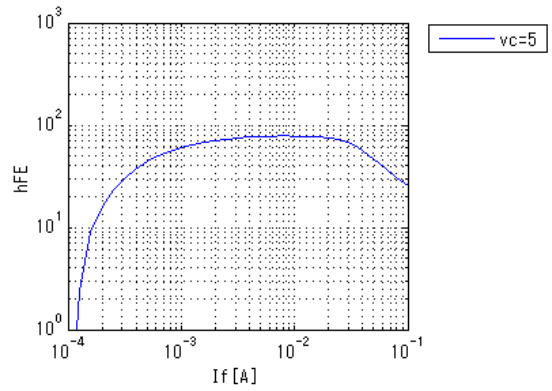
IcIf[Vce]

Temp. = 25deg C



hFEIf[Vce]

Temp. = 25deg C



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