

# **PSpice Model** Photocoupler Tr. Output **VISHAY TCLT1002**

## **Model Information**

	An original macro model MDC_TCLT1002_PS			
Pin Assign	1:Anode 2:Cathode 3:Emitter 4:Collector			
File List	Model Library	MDC_TCLT1002_PS01.lib		
	Model Report	MDC_TCLT1002_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

ala oneelj	
Date/Version	2.9
Product name	TCLT1002
Company name	Vishay Intertechnology, Inc.
Characteristics	IfVf[Temp],IcVce[If],IcIf[Vce],hFEIf[Vce]

#### **Simulation Range**

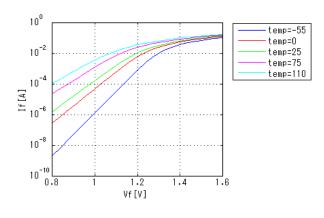
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

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



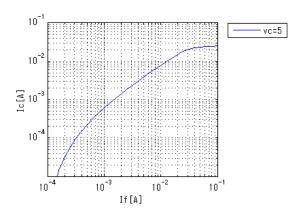
# Simulation results are following. Explanatory notes -: simulated

### lfVf[Temp]



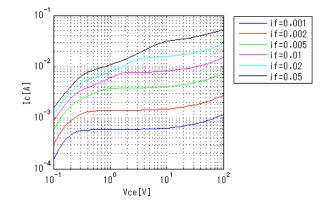
Iclf[Vce]

Temp. = 25deg C



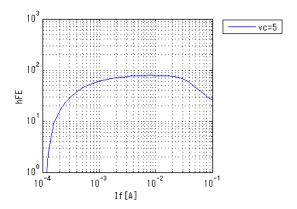
### lcVce[lf]

Temp. = 25deg C



hFElf[Vce]

Temp. = 25deg C





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