

# PSpice Model

## Photocoupler Tr. Output

### VISHAY

### SFH1690CT

#### Model Information

**Model** An original macro model  
**Call Name** MDC\_SF1690CT\_PS  
**Pin Assign** 1:Anode 2:Cathode 3:Emitter 4:Collector  
**File List** Model Library MDC\_SF1690CT\_PS01.lib  
 Model Report MDC\_SF1690CT\_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 2.1
- Product name SFH1690CT
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IcVce[I<sub>f</sub>]

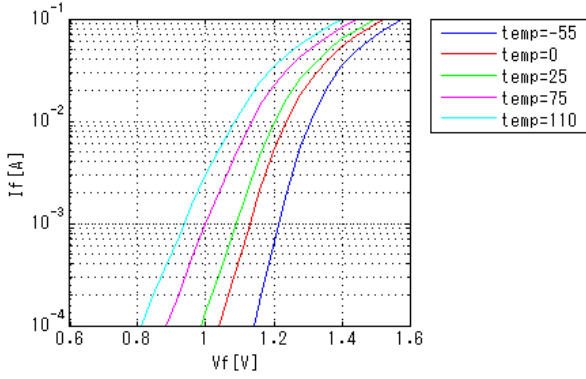
#### Simulation Range

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	0.05	A
Collector-emitter voltage (DC)	0	to	70	V
Temperature	-55	to	150	deg C

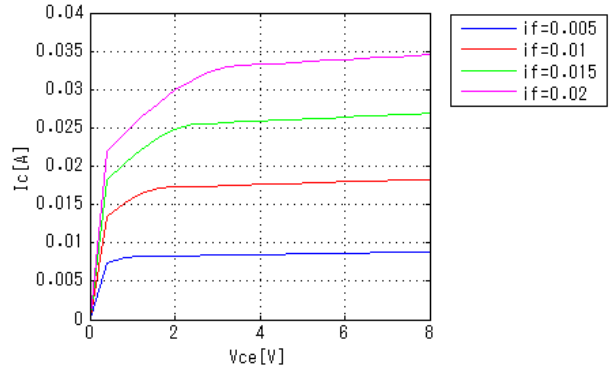
Simulation results are following.  
Explanatory notes — : simulated

**IfVf[Temp]**



**IcVce[If]**

Temp. = 25deg C



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