

PSpice Model

Photocoupler Tr. Output

VISHAY

SFH690C

Model Information

Model An original macro model
Call Name MDC_SF690C_PS
Pin Assign 1:Anode 2:Cathode 3:Emitter 4:Collector
File List Model Library MDC_SF690C_PS01.lib
 Model Report MDC_SF690C_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 2.6
- Product name SFH690C
- Company name Vishay Intertechnology, Inc.
- Characteristics IfVf[Temp],IcVce[If],hFEIf[Vce]

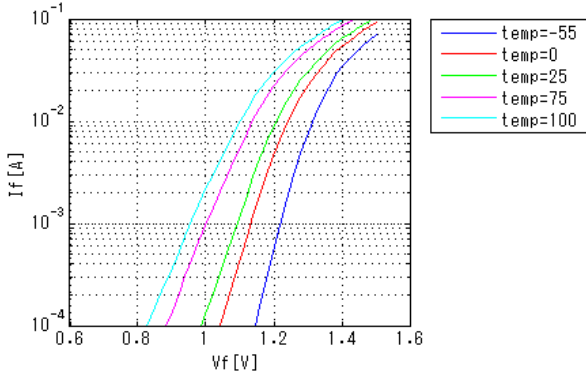
Simulation Range

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

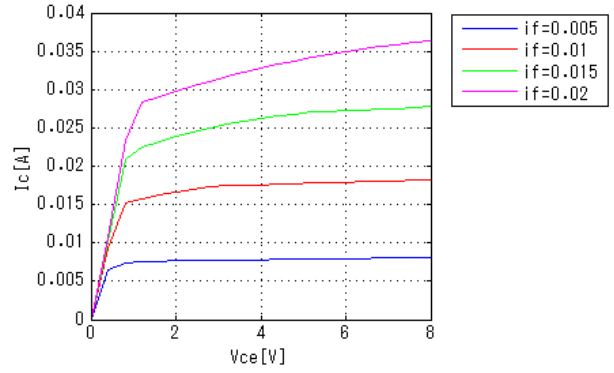
Simulation results are following.
 Explanatory notes — : simulated

IfVf[Temp]



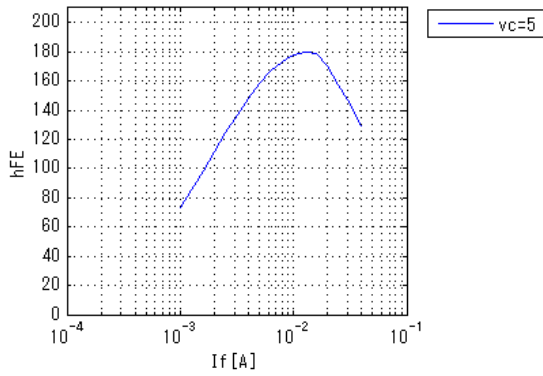
IcVce[If]

Temp. = 25deg C



hFEIf[Vce]

Temp. = 25deg C



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