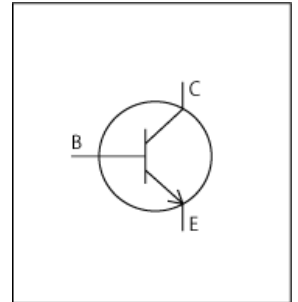


PSpice Model

NPN

ON

FJB5555



Model Information

Model Mextram model
Call Name MDC_FJB5555_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_FJB5555_PS01.lib
 Model Report MDC_FJB5555_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 Rev. 1.1.0
- Product name FJB5555
- Company name ON Semiconductor.
- Characteristics hFEIc[Temp], Vce(sat)Ic[Temp], Vbe(sat)Ic[Temp]

Simulation Range

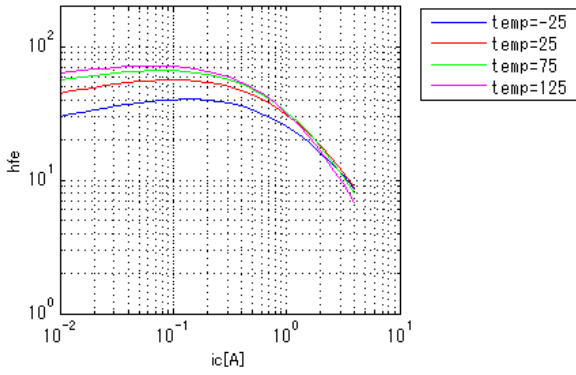
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

| Item | Range | | | Unit |
|--------------------------------|-------|----|------|-------|
| | Min. | | Max. | |
| Collector-emitter voltage (DC) | 0 | to | 400 | V |
| Base current (DC) | 0 | to | 2 | A |
| Temperature | -55 | to | 150 | deg C |

Simulation results are following.
 Explanatory notes — : simulated

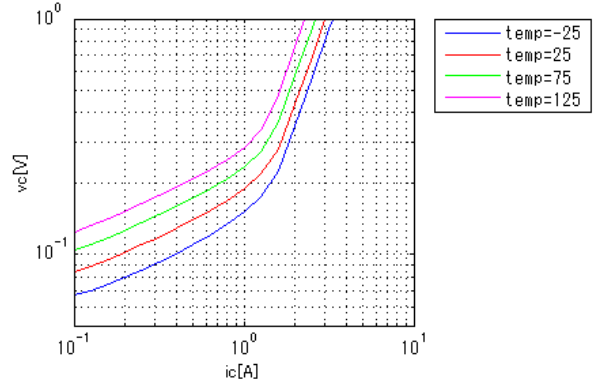
hFEIc[Temp]

Vce = 5V



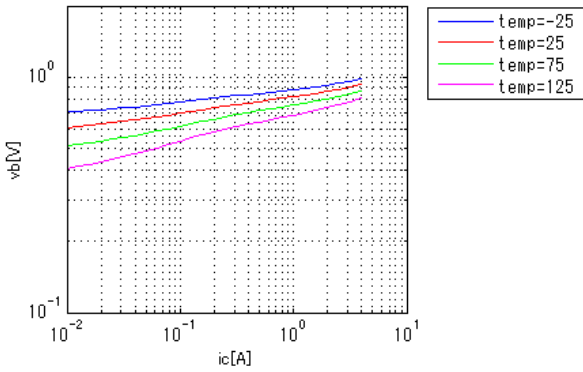
Vce(sat)Ic[Temp]

IC/IB = 5



Vbe(sat)Ic[Temp]

IC/IB = 5



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