

PSpice Model

NPN

ON

FJP5200



Model Information

Model Mextram model
Call Name MDC_FJP5200_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_FJP5200_PS01.lib
 Model Report MDC_FJP5200_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. C
- Product name FJP5200
- Company name ON Semiconductor.
- Characteristics $I_c V_{ce}[I_b], h_{FE} I_c [Temp], V_{ce}(sat) I_c [Temp], V_{be}(sat) I_c [Temp], I_c V_{be} [Temp]$

Simulation Range

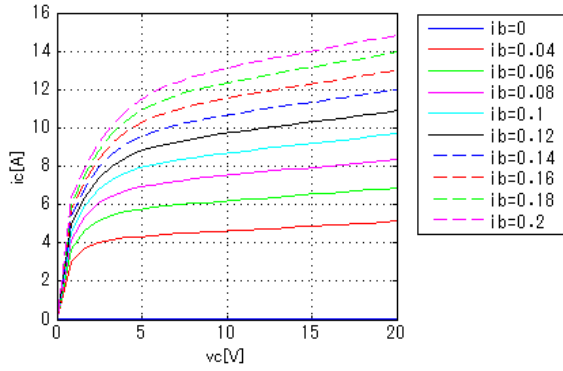
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	250	V
Base current (DC)	0	to	2	A
Temperature	-50	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

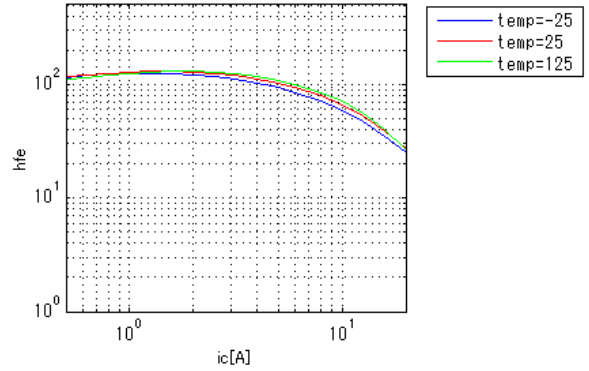
IcVce[ib]

Temp. = 25deg C



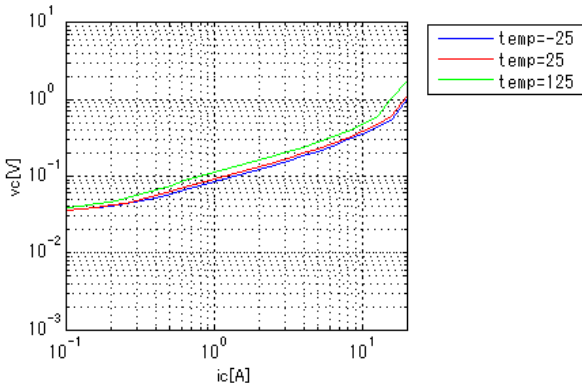
hFEIc[Temp]

Vce = 5V



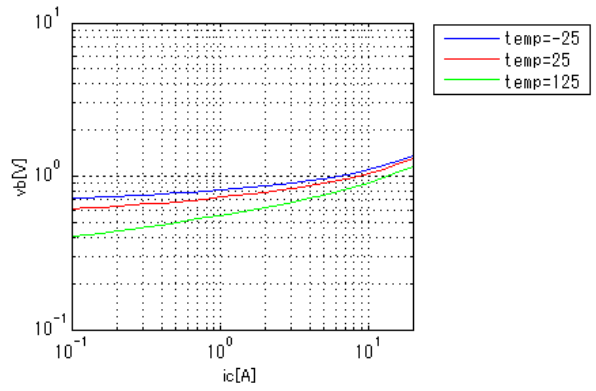
Vce(sat)Ic[Temp]

IC/IB = 10



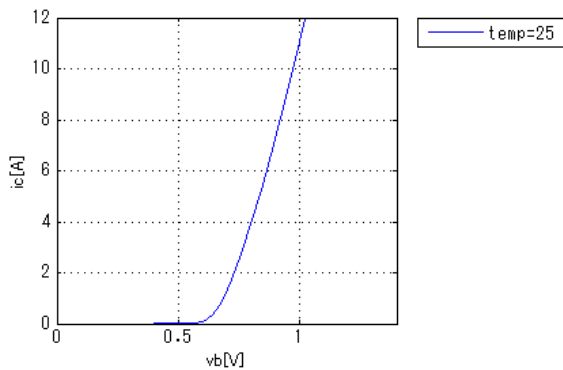
Vbe(sat)Ic[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = 5V



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MoDeCH Inc.

Head Office

Location: Mitsuseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:<http://www.modech.com/en/>