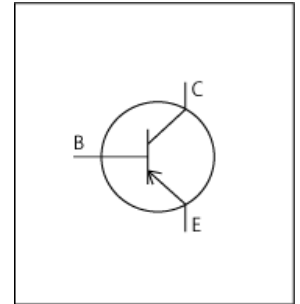


PSpice Model

PNP

Comchip

MMBT2907A-G



Model Information

Model MEXTRAM
Call Name MDC_MMBT2907A-G_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_MMBT2907A-G_PS01.lib
 Model Report MDC_MMBT2907A-G_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:B
- Product name MMBT2907A-G
- Company name Comchip Technology Co., Ltd.
- Characteristics IcVce[ib],IcVbe[Temp],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],Cob,Cib

Simulation Range

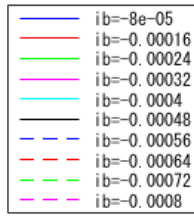
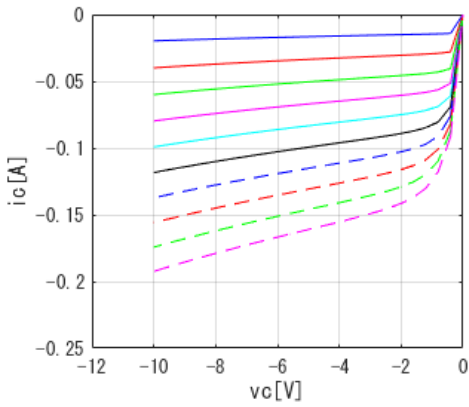
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-60	V
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

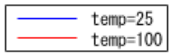
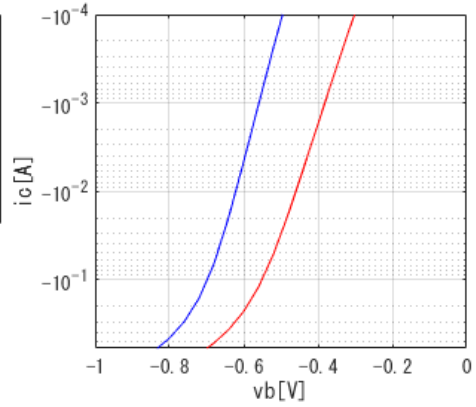
IcVce[ib]

Temp. = 25deg C



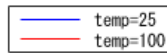
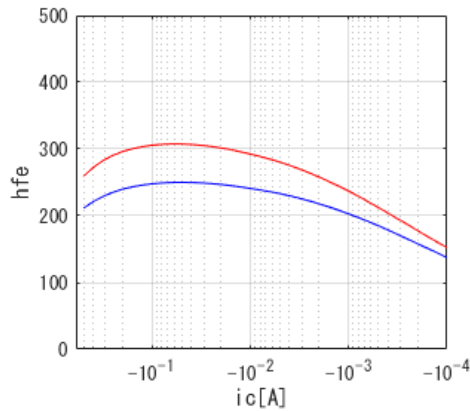
IcVbe[Temp]

Vce = -10V



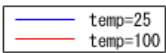
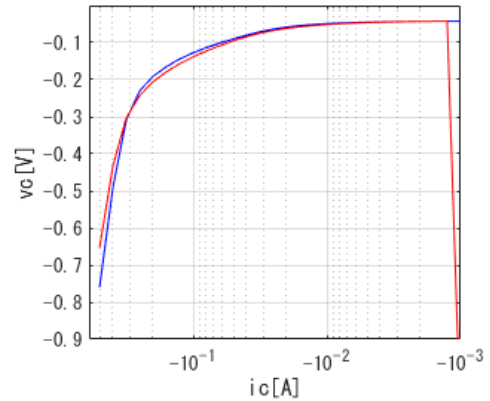
hFEIc[Temp]

Vce = -10V



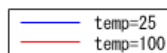
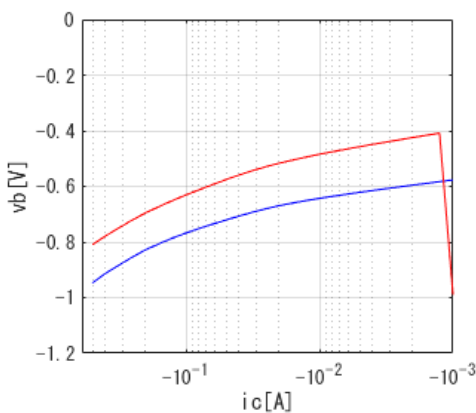
Vce(sat)Ic[Temp]

IC/IB = 10



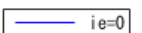
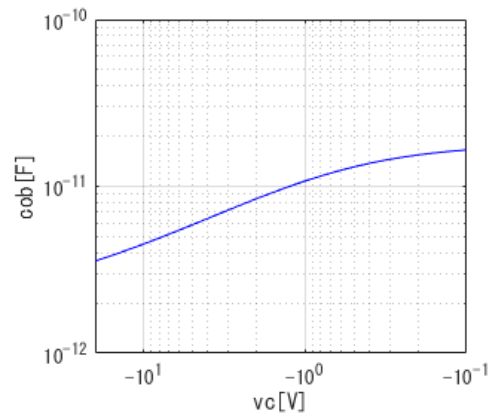
Vbe(sat)Ic[Temp]

IC/IB = 10



Cob

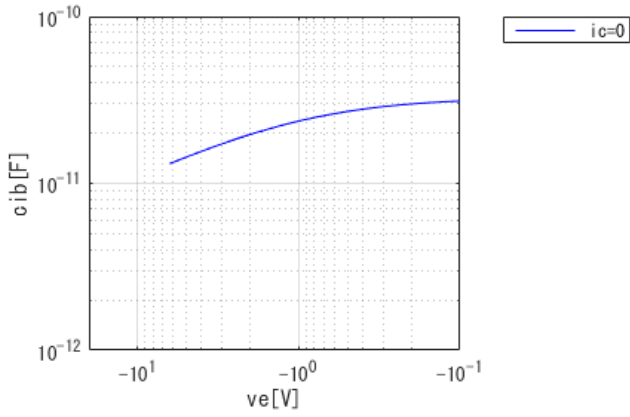
Freq. = 1MHz



Simulation results are following.
 Explanatory notes — : simulated

Cib

Freq. = 1MHz



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