

PSpice Model

PNP

SanKen

2SA1908



Model Information

Model Mextram model
Call Name MDC_2SA1908_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SA1908_PS01.lib
 Model Report MDC_2SA1908_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 None
- Product name 2SA1908
- Company name Sanken Electric Co., Ltd.
- Characteristics $I_c V_{ce}[I_b], V_{ce}(sat)I_b[I_c], I_c V_{be}[Temp], hFE I_c[Temp], fT I_c[V_{ce}]$

Simulation Range

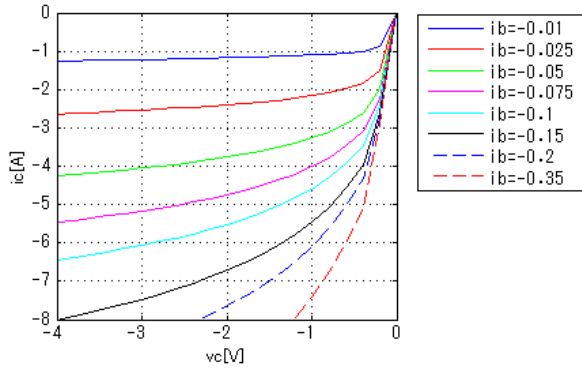
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-120	V
Base current (DC)	0	to	-3	A
Temperature	-55	to	150	deg C

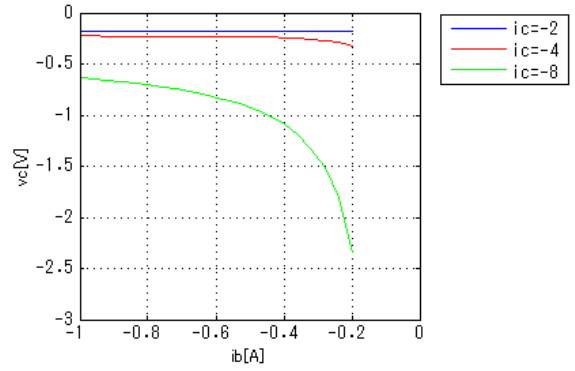
Simulation results are following.
 Explanatory notes — : simulated

IcVce[ib]

Temp. = 25deg C

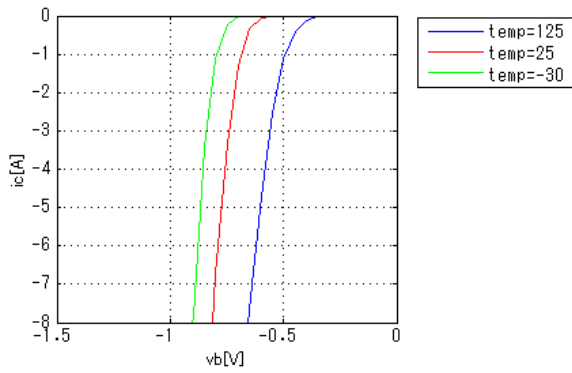


Vce(sat)Ib[Ic]



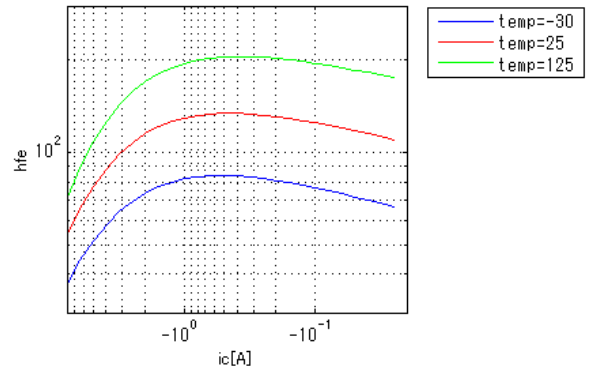
IcVbe[Temp]

Vce = -4V

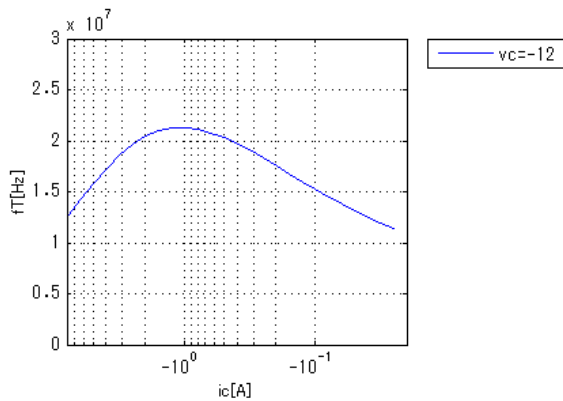


hFEIc[Temp]

Vce = -4V



fT[Ic[Vce]]



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