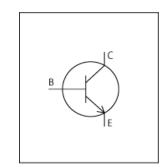


PSpice Model NPN SanKen 2SC5100



Model Information

Model Mextram model
Call Name MDC_2SC5100_PS

Pin Assign 1:C 2:B 3:E
File List Model Library

Model Library MDC_2SC5100_PS01.lib
Model Report MDC_2SC5100_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version NoneProduct name 2SC5100

Company name Sanken Electric Co., Ltd.

● Characteristics IcVce[ib], Vce(sat)Ib[Ic], IcVbe[Temp], hFEIc[Temp], fTIc[Vce]

Simulation Range

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

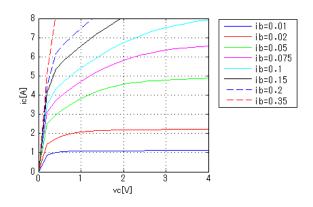
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	120	V
Base current (DC)	0	to	3	А
Temperature	-55	to	150	deg C



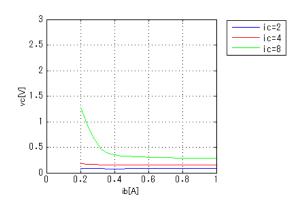
Simulation results are following. Explanatory notes — : simulated

IcVce[ib]

Temp. = 25deg C

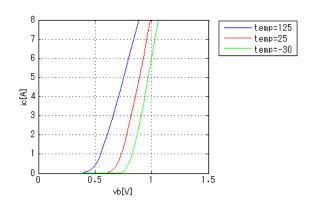


Vce(sat)lb[lc]



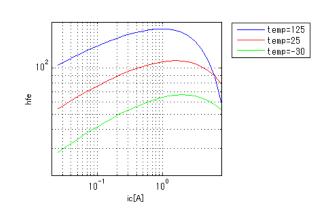
IcVbe[Temp]

Vce = 4V

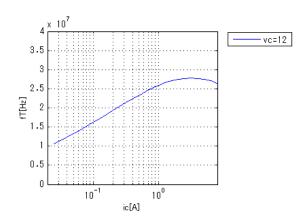


hFElc[Temp]

Vce = 4V



fTlc[Vce]





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