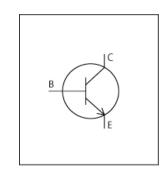


PSpice Model NPN TOSHIBA 2SC5200N



Model Information

ModelGummel-Poon modelCall NameMDC_2SC5200N_PS

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

Model Report MDC_2SC5200N_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2SC5200N_PS02.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

● Date/Version 2014-01-24 Rev.3.0

● Product name 2SC5200N

Company name Toshiba Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],IcVbe[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	230	V
Base current (DC)	0	to	2	А
Temperature	-55	to	150	deg C

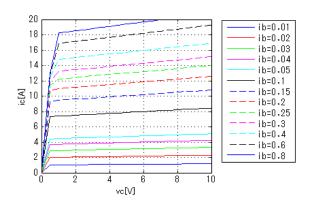


Simulation results are following.

Explanatory notes — : simulated

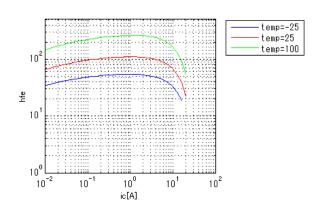
IcVce[ib]

Temp. = 25deg C



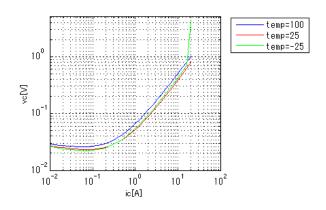
hFEIc[Temp]

Vce = 5V



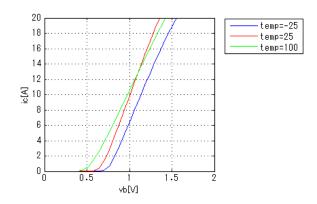
Vce(sat)lc[Temp]

IC/IB = 10



IcVbe[Temp]

Vce = 5V





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MoDeCH Inc.

Head Office

Location: Mitsuiseimei 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/