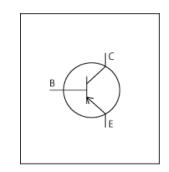


PSpice Model PNP RENESAS 2SA1843



Model Information

Model Mextram model
Call Name MDC_2SA1843_PS

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

Model Report MDC_2SA1843_PS.pdf (this file)

Verified Simulator Version

Note

PSpice version 16.6

MDC_2SA1843_PS01.lib

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameUnknown2SA1843

■Company name Renesas Electronics Corporation

● Characteristics IcVce[ib],hFEIc[Temp],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],fT

Ic[Vce],Cob

Simulation Range

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

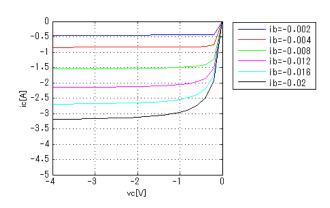
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-60	V
Base current (DC)	0	to	-3	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

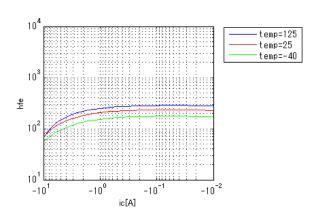
IcVce[ib]

Temp. = 25deg C



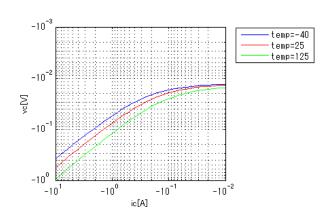
hFEIc[Temp]

Vce = -2V



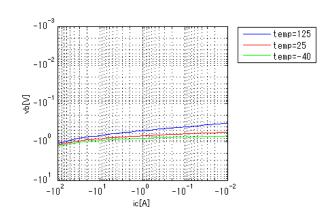
Vce(sat)lc[Temp]

IC/IB = 20

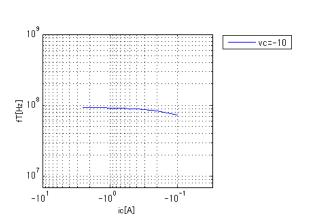


Vbe(sat)lc[Temp]

IC/IB = 20

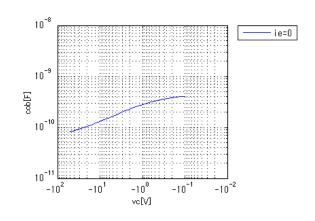


fTlc[Vce]



Cob

Freq. = 1MHz





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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/