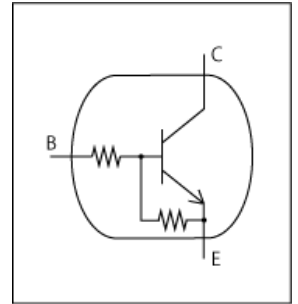


PSpice Model BRT (Bias Resistor Transistor) TOSHIBA RN1905



Model Information

Model A macro model based on Mextram model
Call Name MDC_RN1905_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_RN1905_PS02.lib
 Model Report MDC_RN1905_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 2016-10-24
- Product name RN1905
- Company name Toshiba Corporation
- Characteristics IcVi[OFF],IcVi[ON],hFEIc[Temp]

Simulation Range

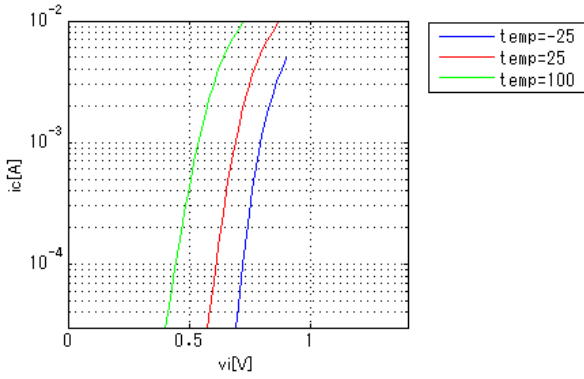
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

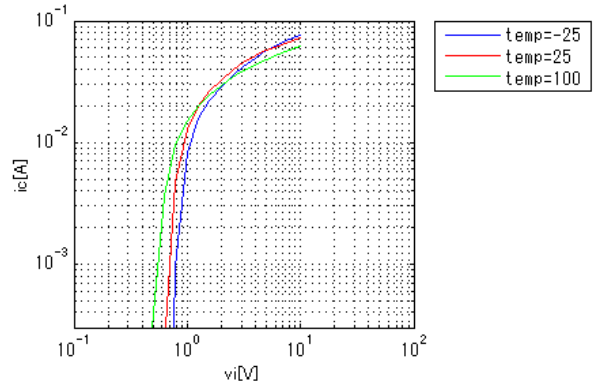
IcVi[OFF]

Vce = 5V



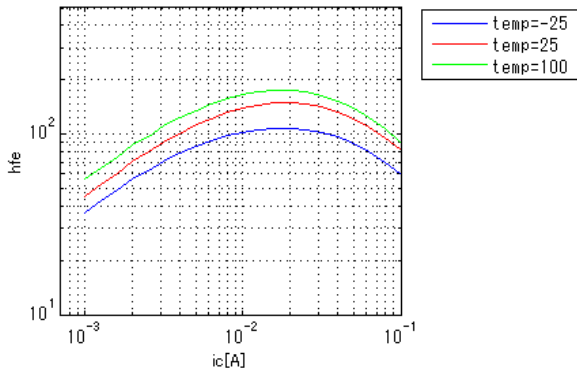
IcVi[ON]

Vce = 0.2V



hFEIc[Temp]

Vce = 5V



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MoDeCH Inc.

Head Office

Location: Mitsuseimei 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/>