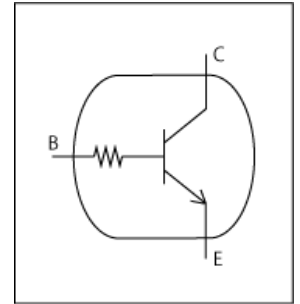


PSpice Model

BRT (Bias Resistor Transistor)

ROHM

DTC614TU



Model Information

Model A macro model based on Mextram model
Call Name MDC_DTC614TU_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_DTC614TU_PS02.lib
 Model Report MDC_DTC614TU_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 Unknown
- Product name DTC614TU
- Company name ROHM Co., Ltd.
- Characteristics $hFEIc[Temp], Vce(sat)Ic[Temp]$

Simulation Range

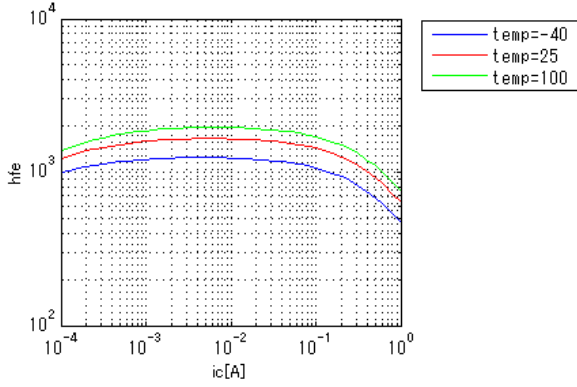
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	20	V
Base current (DC)	0	to	30	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

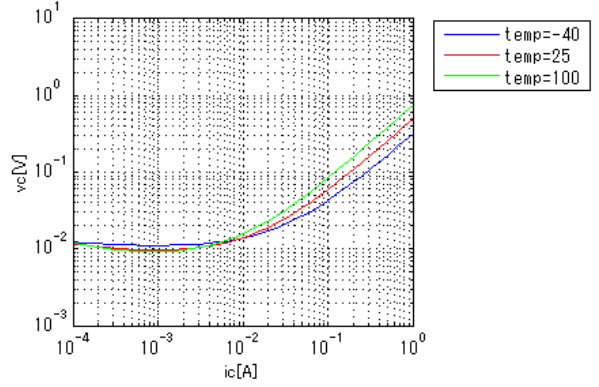
hFEIc[Temp]

Vce = 5V



Vce(sat)Ic[Temp]

IC/IB = 20



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