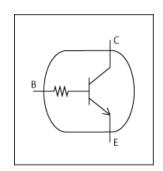


PSpice Model BRT (Bias Resistor Transistor) ROHM DTC114T



Model Information

Model A macro model based on Mextram model

Call Name MDC_DTC114T_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC_DTC114T_PS02.lib

Model Report MDC_DTC114T_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/VersionProduct nameCompany nameOctober 23DTC114TROHM Co., Ltd.

● Characteristics IcVi[OFF],IcVce[Ii],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.

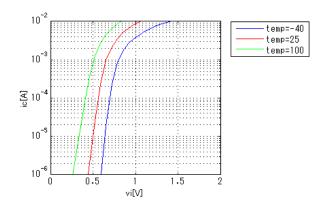
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	10	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

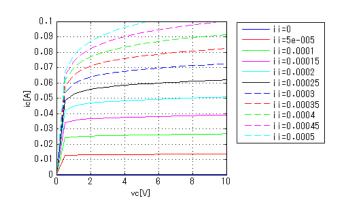
IcVi[OFF]

Vce = 5V



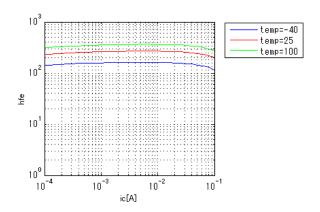
IcVce[li]

Temp. = 25deg C



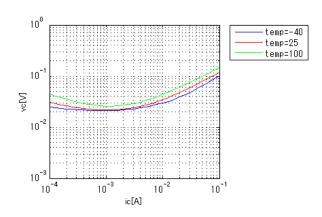
hFElc[Temp]

Vce = 5V



Vce(sat)Ic[Temp]

IC/IB = 10





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