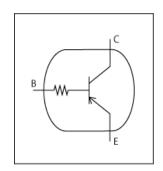


# PSpice Model BRT (Bias Resistor Transistor) ROHM DTA114T



# **Model Information**

Model A macro model based on Mextram model

Call Name MDC\_DTA114T\_PS

Pin Assign 1:C 2:B 3:E

File List Model Library MDC\_DTA114T\_PS02.lib

Model Report MDC\_DTA114T\_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 nameUnknownDTA114TROHM Co., Ltd.

● Characteristics IcVce[li],IcVi[OFF],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	-5	А
Temperature	-55	to	150	deg C

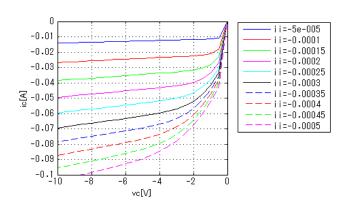


Simulation results are following.

Explanatory notes — : simulated

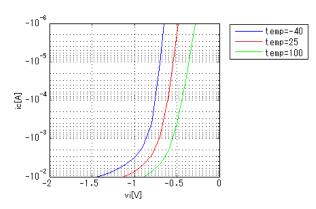
### IcVce[li]

Temp. = 25deg C



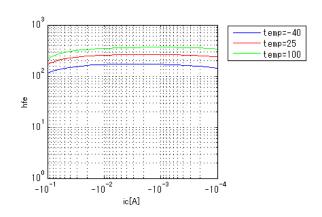
## IcVi[OFF]

Vce = -5V



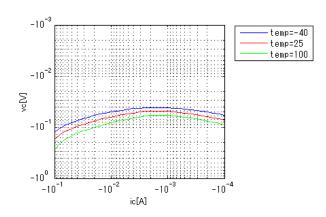
#### hFEIc[Temp]

Vce = -5V



# Vce(sat)lc[Temp]

IC/IB = 20





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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/