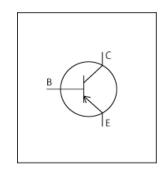


# PSpice Model PNP RENESAS 2SA1744



## **Model Information**

Model Mextram model
Call Name MDC\_2SA1744\_PS

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

Model Report MDC\_2SA1744\_PS.pdf (this file)

**Verified Simulator Version** 

Note

PSpice version 16.6

MDC\_2SA1744\_PS01.lib

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionDecember 1997

Product name 2SA1744

● 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	-8	Α
Temperature	-55	to	150	deg C

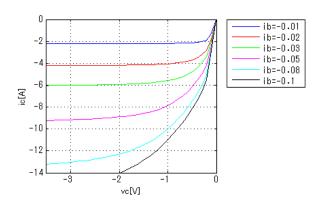


Simulation results are following.

Explanatory notes — : simulated

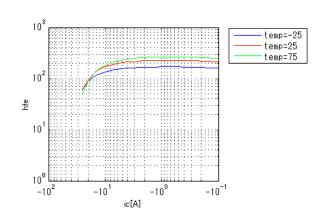
#### IcVce[ib]

Temp. = 25deg C



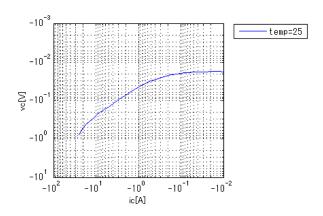
#### hFEIc[Temp]

Vce = -2V



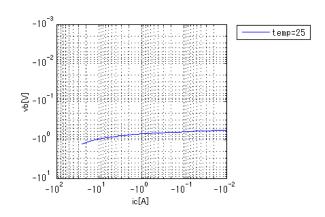
#### Vce(sat)lc[Temp]

IC/IB = 20

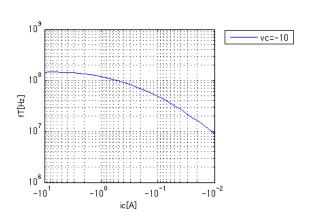


### Vbe(sat)lc[Temp]

IC/IB = 20

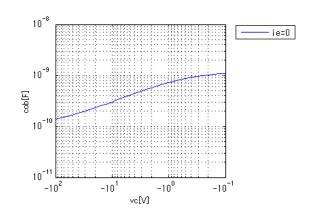


#### fTlc[Vce]



#### Cob

Freq. = 1MHz





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