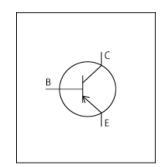


# LTspice Model PNP RENESAS 2SB1721



# **Model Information**

Model Mextram model
Call Name MDC\_2SB1721\_LT

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

Model Library MDC\_2SB1721\_LT01.lib
Model Report MDC\_2SB1721\_LT.pdf (this file)

**Verified Simulator Version** 

Note

LTspice version XVII

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameJuly 20062SB1721

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.

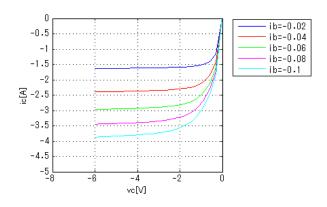
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-60	V
Base current (DC)	0	to	-1	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

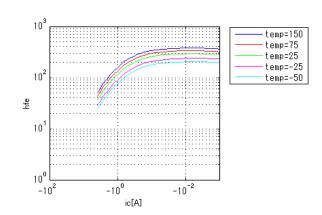
### IcVce[ib]

Temp. = 25deg C



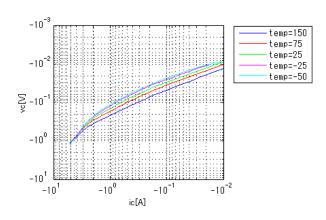
#### hFEIc[Temp]

Vce = -5V



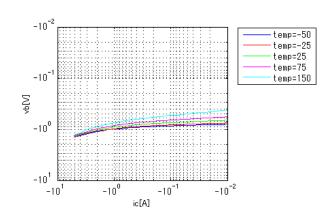
#### Vce(sat)lc[Temp]

IC/IB = 10

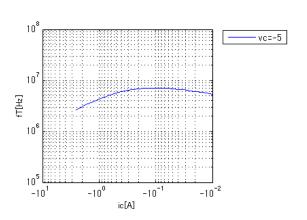


## Vbe(sat)lc[Temp]

IC/IB = 10

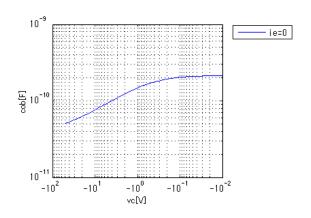


### fTlc[Vce]



#### Cob

Freq. = 1MHz





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