

LTspice Model

PNP

Comchip

MMBT5401-G



Model Information

Model Mextram model
Call Name MDC_MMBT5401-G_LT
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_MMBT5401-G_LT01.lib
 Model Report MDC_MMBT5401-G_LT.pdf (this file)

Verified Simulator Version LTspice version XVII
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version REV:B
- Product name MMBT5401-G
- Company name Comchip Technology Co., Ltd.
- Characteristics Vce(sat)Ic[Temp],hFEIc[Temp],IcVbe[Temp],fTlc[Vce]

Simulation Range

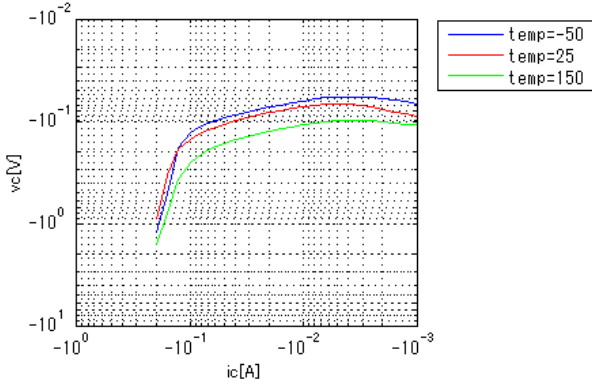
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-150	V
Base current (DC)	0	to	-0.060	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

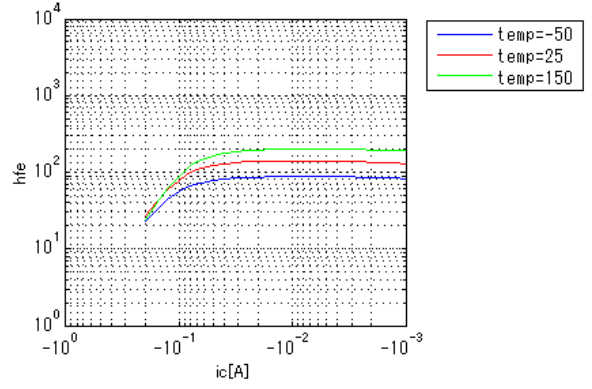
Vce(sat)Ic[Temp]

IC/IB = 10



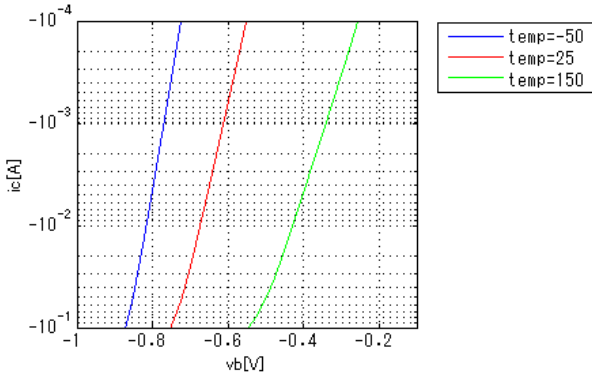
hFEIc[Temp]

Vce = -5V

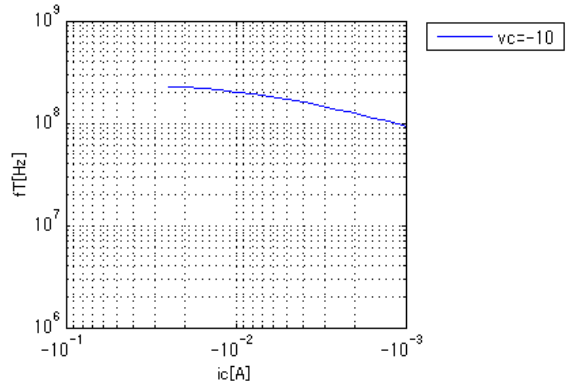


IcVbe[Temp]

Vce = -5V



fT[Ic]



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