

LTspice Model

NPN

RENESAS

2SC2334



Model Information

Model Mextram model
Call Name MDC_2SC2334_LT
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SC2334_LT01.lib
 Model Report MDC_2SC2334_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 Unknown
- Product name 2SC2334
- Company name Renesas Electronics Corporation
- Characteristics $I_{cVce}[ib], hFEI_c[Temp], V_{be(sat)}I_c[Temp], V_{ce(sat)}I_c[Temp]$

Simulation Range

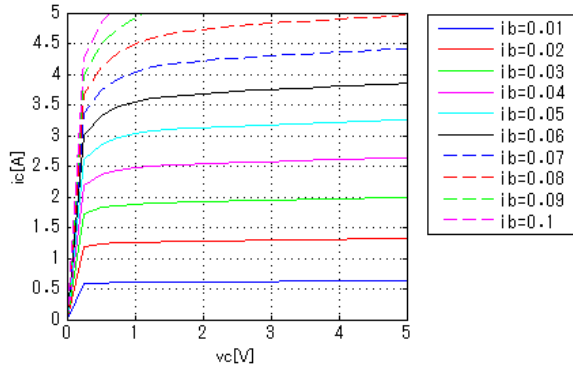
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	100	V
Base current (DC)	0	to	4	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

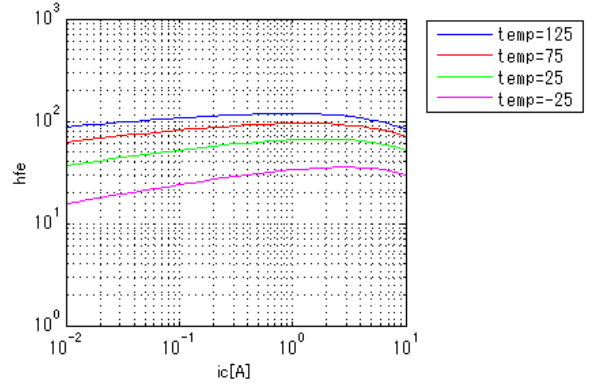
IcVce[ib]

Temp. = 25deg C



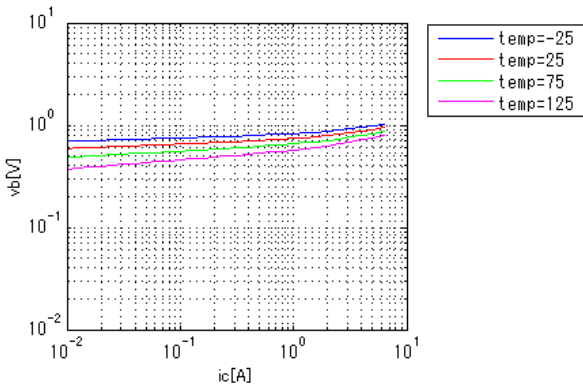
hFEIc[Temp]

Vce = 5V



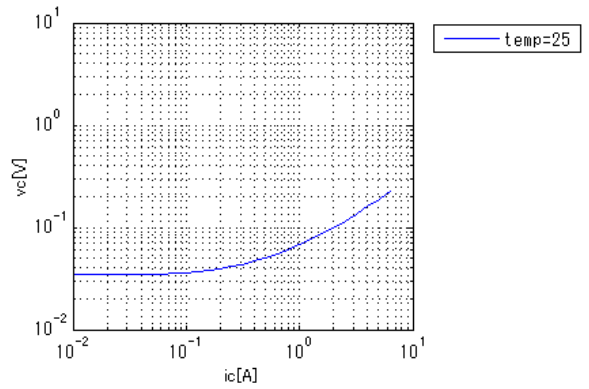
Vbe(sat)Ic[Temp]

IC/IB = 10



Vce(sat)Ic[Temp]

IC/IB = 10



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