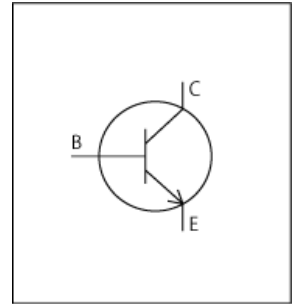


PSpice Model

NPN

TOSHIBA

2SC3325



Model Information

Model Gummel-Poon model
Call Name MDC_2SC3325_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2SC3325_PS02.lib
 Model Report MDC_2SC3325_PS.pdf (this file)

Verified Simulator Version PSpice version 16.6
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version 2007-11-01
- Product name 2SC3325
- Company name Toshiba Corporation
- Characteristics $I_c V_{ce}[I_b], h_{FE} I_c [Temp], V_{ce}(sat) I_c [Temp], I_b V_{be} [Temp]$

Simulation Range

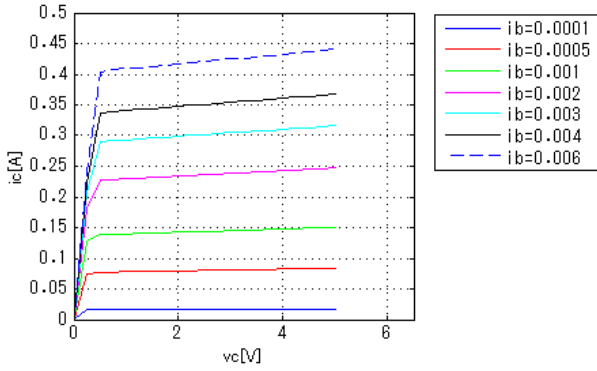
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	50m	A
Temperature	-55	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

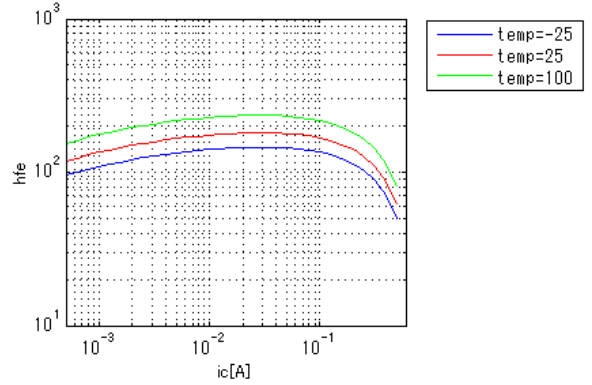
IcVce[ib]

Temp. = 25deg C



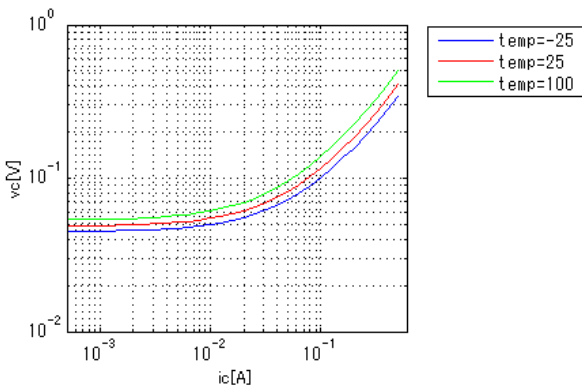
hFEIc[Temp]

Vce = 6V



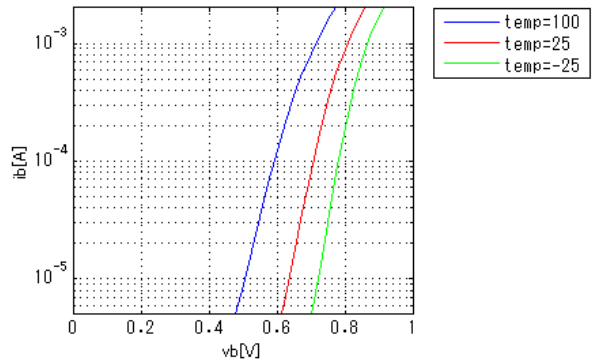
Vce(sat)Ic[Temp]

IC/IB = 10



IbVbe[Temp]

Vce = 6V



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