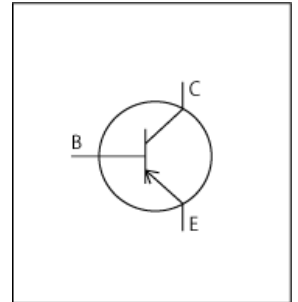


PSpice Model

PNP

Diodes

BC857A



Model Information

Model Gummel-Poon model
Call Name MDC_BC857A_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_BC857A_PS02.lib
 Model Report MDC_BC857A_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 Rev. 24 - 2
- Product name BC857A
- Company name Diodes Incorporated
- Characteristics hFEIc[Temp],Vce(sat)Ic[Temp],fTlc[Vce]

Simulation Range

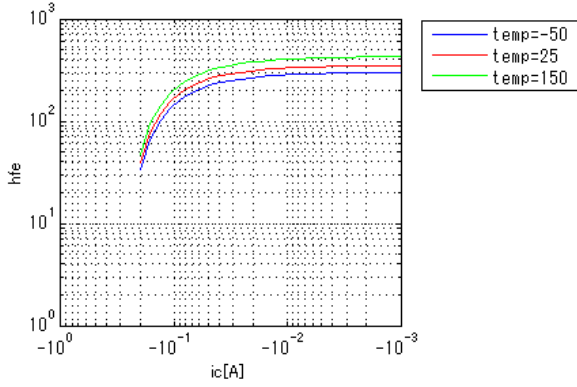
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-45	V
Base current (DC)	0	to	-10	A
Temperature	-65	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

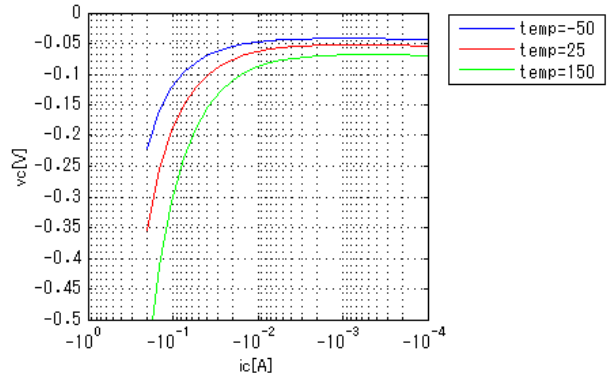
hFEIc[Temp]

Vce = -5V

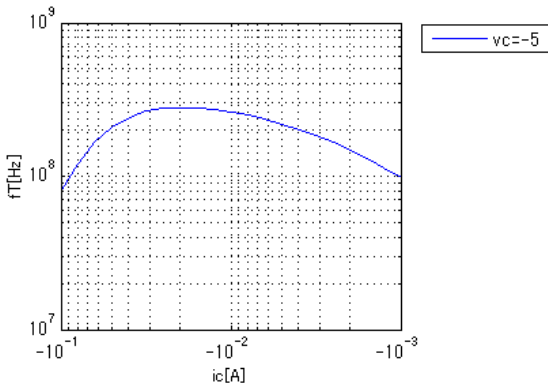


Vce(sat)Ic[Temp]

IC/IB = 10



fT[Ic[Vce]]



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MoDeCH Inc.

Head Office

Location: Mitsuseimei Hachioji Bldg., 5-15 Yokoyama-cho, Hachioji-Shi, Tokyo 192-0081, Japan

Tel:+81-42-656-3360

E-Mail:model-on-support@modech.co.jp

URL:<http://www.modech.com/en/>