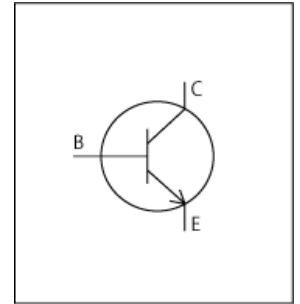


PSpice Model

NPN

Diodes

2DC2412R



Model Information

Model Gummel-Poon model
Call Name MDC_2DC2412R_PS
Pin Assign 1:C 2:B 3:E
File List Model Library MDC_2DC2412R_PS02.lib
 Model Report MDC_2DC2412R_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. 3 - 2
- Product name 2DC2412R
- Company name Diodes Incorporated
- Characteristics Vce(sat)Ic[Temp],fTlc[Vce],hFEIc[Temp]

Simulation Range

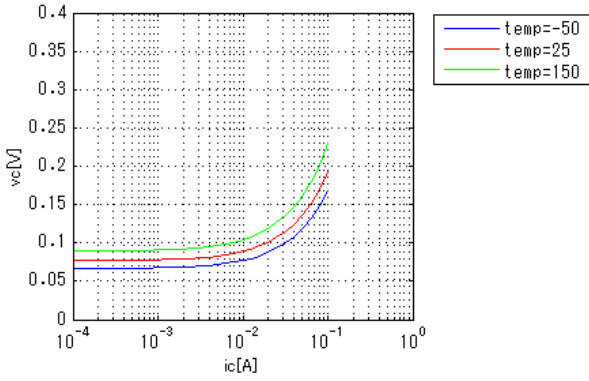
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	50	V
Base current (DC)	0	to	8	A
Temperature	-55	to	150	deg C

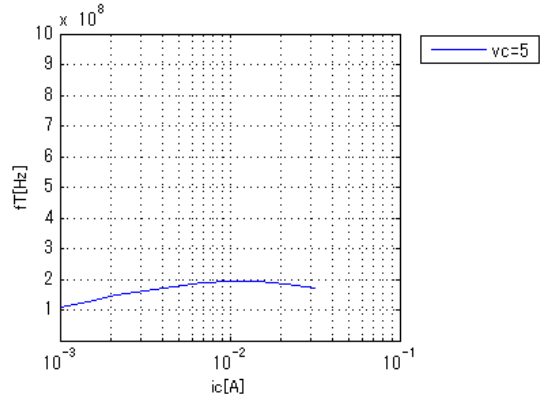
Simulation results are following.
 Explanatory notes — : simulated

Vce(sat)Ic[Temp]

IC/IB = 20

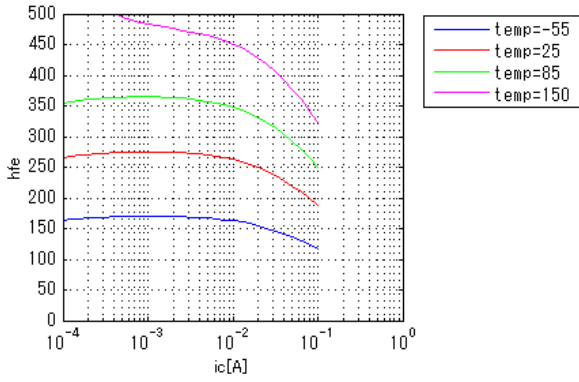


fT Ic[Vce]



hFEIc[Temp]

Vce = 6V



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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/>