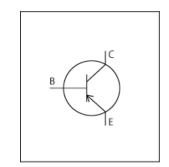


# PSpice Model PNP Diodes 2DB1386Q



# **Model Information**

Model Mextram model
Call Name MDC\_2DB1386Q\_PS

**Pin Assign** 1:C 2:B 3:E **File List** Model Library

Model Library MDC\_2DB1386Q\_PS01.lib
Model Report MDC\_2DB1386Q\_PS.pdf (this file)

**Verified Simulator Version** 

Note

PSpice version 16.6

#### References

The information which was used for modeling is as follow:

[Data Sheet]

Date/VersionProduct nameRev. 7 - 22DB1386Q

Company name Diodes Incorporated

● Characteristics hFEIc[Temp],IcVce[ib],Vce(sat)Ic[Temp],Vbe(sat)Ic[Temp],C

ob,fTlc[Vce]

#### **Simulation Range**

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

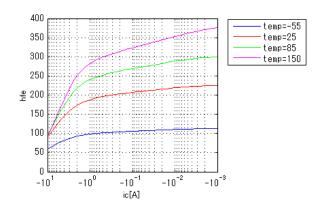
Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	-20	V
Base current (DC)	0	to	-500m	Α
Temperature	-55	to	150	deg C



Simulation results are following. Explanatory notes — : simulated

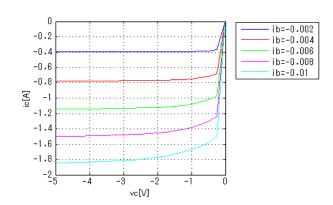
# hFEIc[Temp]

Vce = -2V



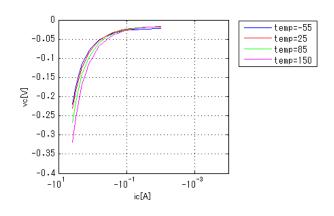
### IcVce[ib]

Temp. = 25deg C



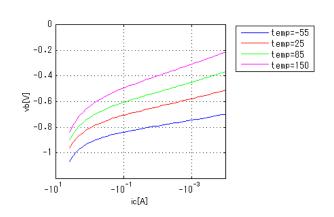
#### Vce(sat)lc[Temp]

IC/IB = 40



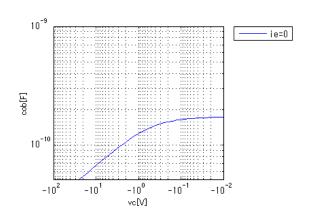
# Vbe(sat)lc[Temp]

IC/IB = 40

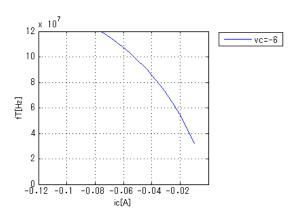


#### Cob

Freq. = 1MHz



# fTIc[Vce]





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