

### MDC\_2SC3423\_PS

# PSpice Model NPN TOSHIBA 2SC3423

# Model Information

ModelMextram modelCall NameMDC\_2SC3423\_PSPin Assign1:C 2:B 3:EFile ListModel Library<br/>Model Report

MDC\_2SC3423\_PS01.lib MDC\_2SC3423\_PS.pdf (this file)

Verified Simulator Version Note

PSpice version 16.6

#### References

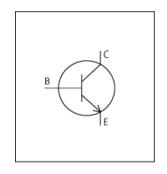
The information which was used for modeling is as follow:

2006-11-07 2SC3423 Toshiba Corporation IcVce[ib],Vce(sat)Ic[Temp],IcVbe[Temp],fTIc[Vce],hFEIc[Te mp],Cob

#### 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	150	V
Base current (DC)	0	to	5m	А
Temperature	-55	to	150	deg C

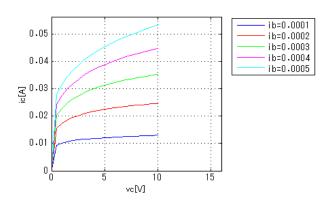




#### Simulation results are following. Explanatory notes — : simulated

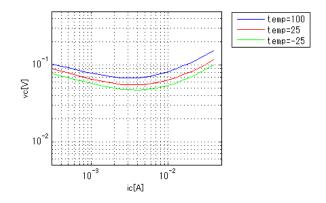
#### IcVce[ib]

Temp. = 25deg C



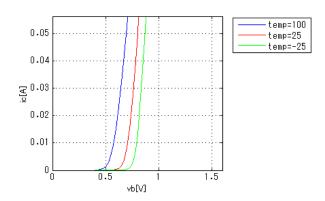
## Vce(sat)lc[Temp]

IC/IB = 10



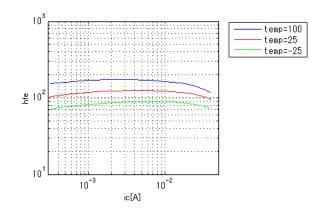
### IcVbe[Temp]

Vce = 5V

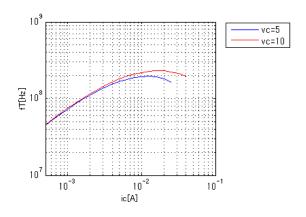


### hFEIc[Temp]

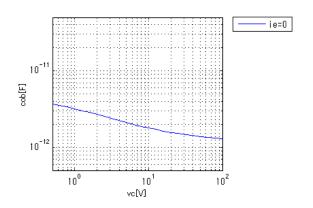
Vce = 5V



fTIc[Vce]



**Cob** Freq. = 1MHz



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