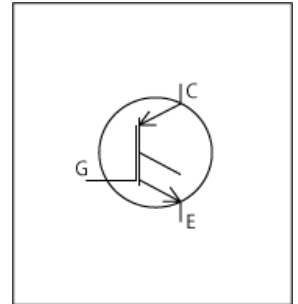


PSpice Model

Nch IGBT

FUJI ELECTRIC

1MBI2400VC-120P



Model Information

Model An original macro model based on BSIM3 and Gummel-Poon model
Call Name MDC_1MBI2400VC-120P_PS
Pin Assign 1:C 2:G 3:E
File List Model Library MDC_1MBI2400VC-120P_PS02.lib
 Model Report MDC_1MBI2400VC-120P_PS.pdf (this file)

Verified Simulator Version PSpice version 17.2
Note

References

The information which was used for modeling is as follow:

[Data Sheet]

- Date/Version SEPTEMBER 2013
- Product name 1MBI2400VC-120P
- Company name FUJI ELECTRIC CO., LTD.
- Characteristics IcVce[Vge],IcVce[Temp],IfVf[Temp]

Simulation Range

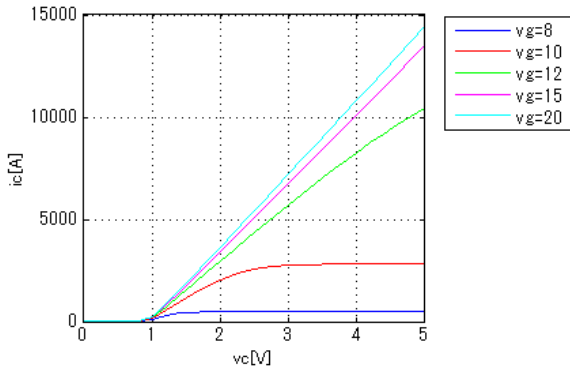
This table shows the range of evaluated simulation range that was not occurs any convergence problems in this area.

Item	Range			Unit
	Min.		Max.	
Collector-emitter voltage (DC)	0	to	1,200	V
Gate-emitter voltage (DC)	-20	to	20	V
Temperature	-40	to	150	deg C

Simulation results are following.
 Explanatory notes — : simulated

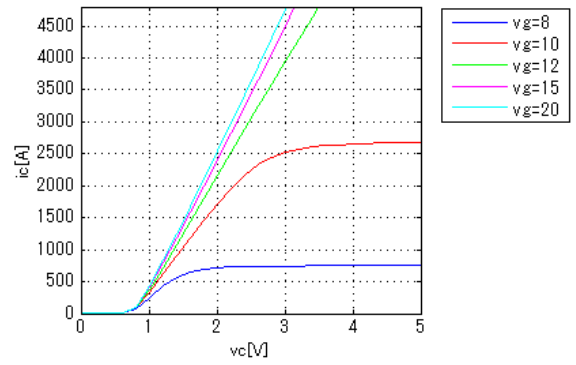
IcVce[Vge]

Temp. = 25deg C



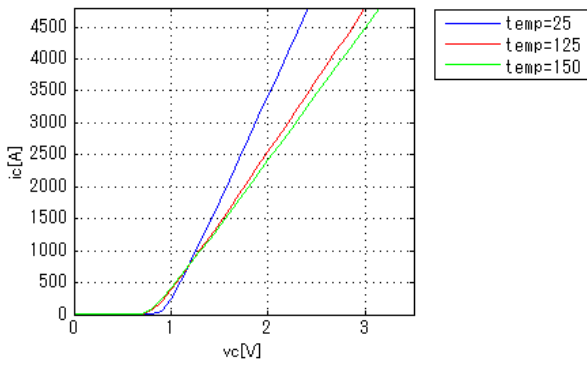
IcVce[Vge]

Temp. = 150deg C

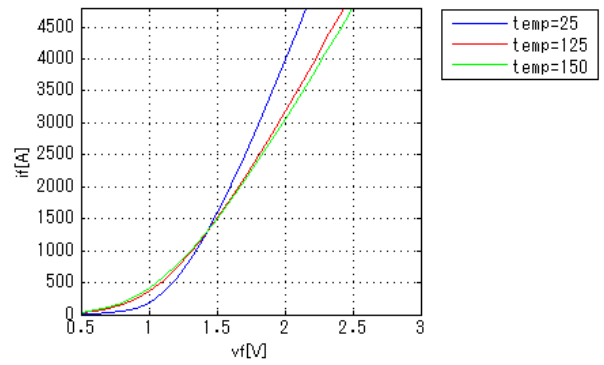


IcVce[Temp]

Vge = 15V



IfVf[Temp]



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