

LTspice Model 2ch High side switch ROHM SEMICONDUCTOR BD2066FJ-E2

Model Information

Model A macro model

Call Name MDC_BD2066FJ-E2_LT

Pin Assign 1:GND 2:IN 3:EN1 4:EN2 5:/OC2 6:OUT2 7:OUT1 8:/OC1

File List Model Library MDC_BD2066FJ-E2_LT01.lib

Model Report MDC_BD2066FJ-E2_LT.pdf(this file)

Verified Simulator Version LTspice

Note

References

The information which was used for modeling is as follow:

[Data Sheet]

Date/Version Rev.003Product name BD2066FJ-E2

Company name
ROHM SEMICONDUCTOR

[Characteristics listed]

Ocharacteristics Normal Operation
Overcurrent Detection

-- the switch is turned on when the output is short-circuited

- -- the output current gradually increases
- -- the output is short-circuited with the switch on

Simulation Condition

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

Item	Condition	Unit
Temperature	25	deg C



Model Functions Table

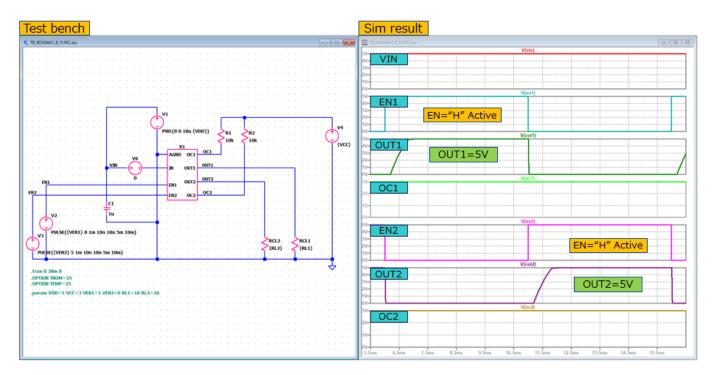
Functions	Implemented
Soft-Start	0
Overcurrent Detection	0
Current Limit	0
Under-Voltage Lockout	0
Open Drain External Notification Terminal	0
Flag Output Delay	0



Normal Operation

Simulation results are following.

Explanatory notes — : simulated

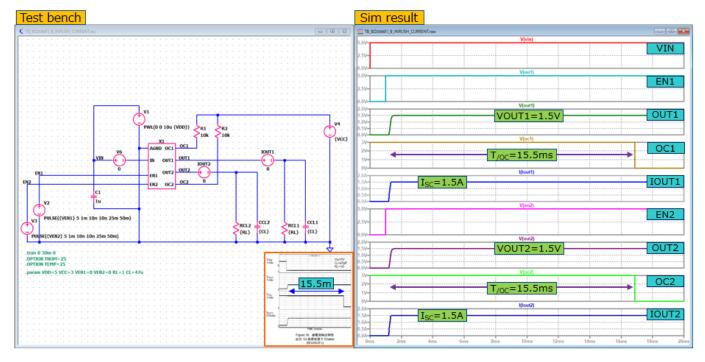


Overcurrent Detection

-- the switch is turned on when the output is short-circuited

Simulation results are following.

Explanatory notes -: simulated



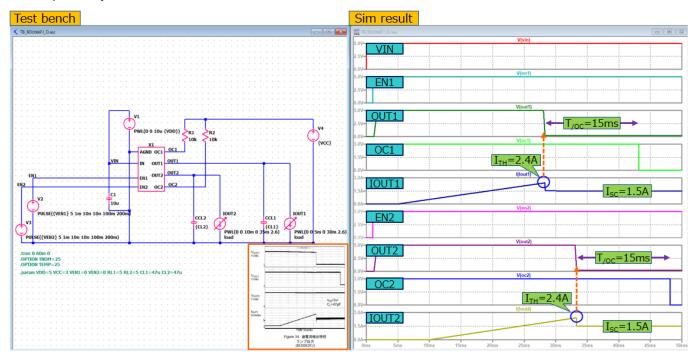


Overcurrent Detection

-- the output current gradually increases

Simulation results are following.

Explanatory notes — : simulated

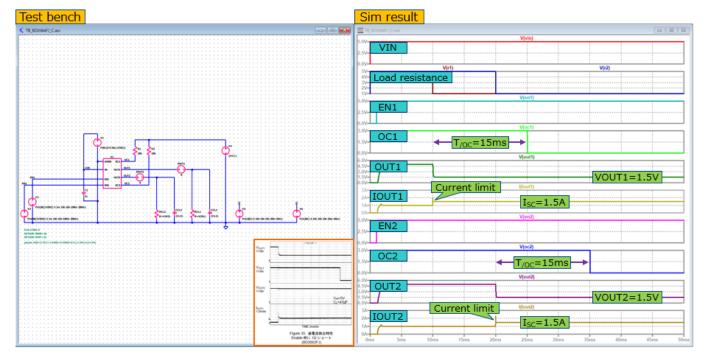


Overcurrent Detection

-- the output is short-circuited with the switch on

Simulation results are following.

Explanatory notes — : simulated





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