

# **LTspice Model** 2ch High side switch **ROHM SEMICONDUCTOR BD2062FJ-E2**

# **Model Information**

Model A macro model

**Call Name** MDC\_BD2062FJ-E2\_LT

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

Model Library MDC\_BD2062FJ-E2\_LT01.lib File List

Model Report MDC\_BD2062FJ-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.003 Product name BD2062FJ-E2

ROHM SEMICONDUCTOR Company name

[Characteristics listed]

Characteristics 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**

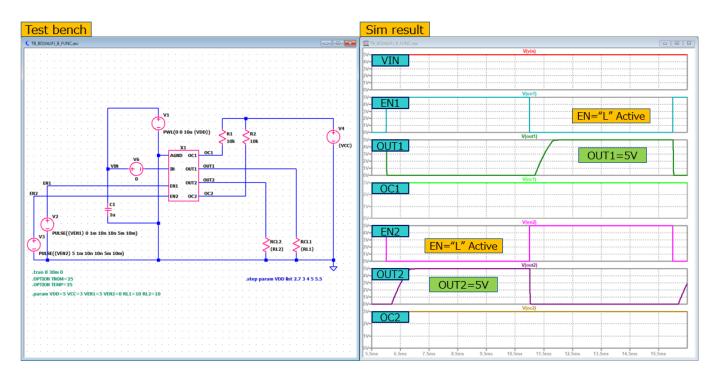
Functions	Implemented
Soft-Start	0
Overcurrent Detection	0
Current Limit	0
Under-Voltage Lockout	0
Open Drain External Notification Terminal	0
Flag Output Delay	0



Normal Operation

Simulation results are following.

Explanatory notes — : simulated

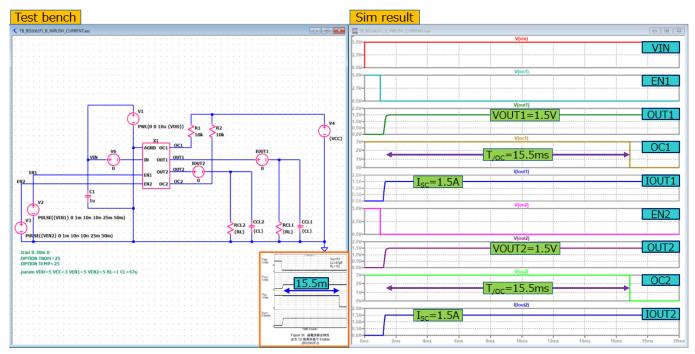


## Overcurrent Detection

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

Simulation results are following.

Explanatory notes -: simulated



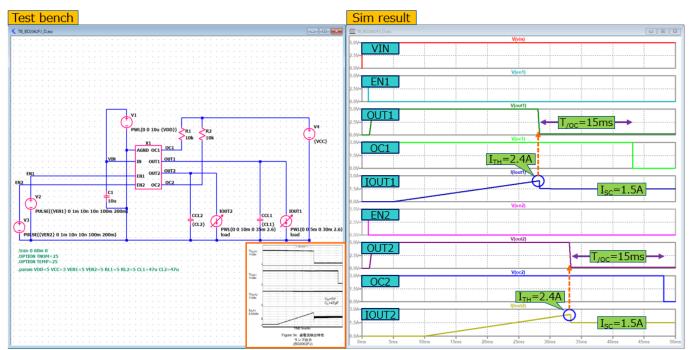


## Overcurrent Detection

-- the output current gradually increases

Simulation results are following.

Explanatory notes — : simulated

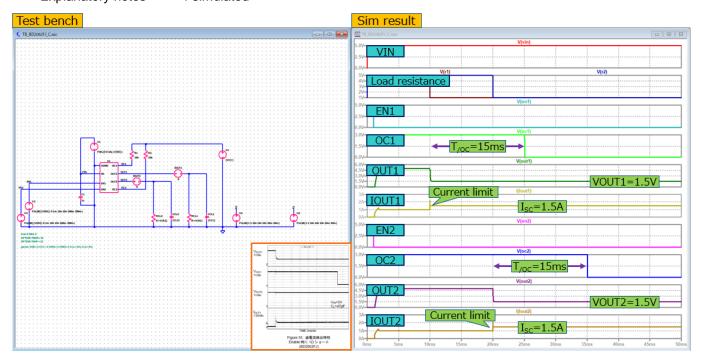


## Overcurrent Detection

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

Simulation results are following.

Explanatory notes — : simulated





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