

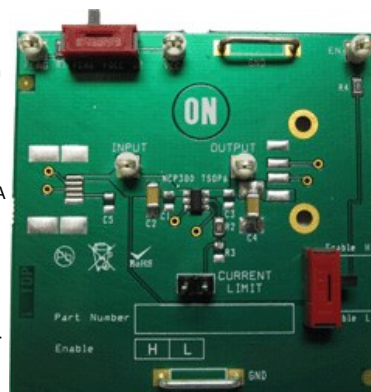


# NCP380HSNAJAGEVB: High-Side Power Distribution Switch Evaluation Board

The NCP380 is a high-side power distribution switch designed for applications where heavy capacitive loads and short-circuits are likely to be encountered, incorporating a 70 mΩ (DFN package), P channel MOSFET in a single package.

The device limits the output current to a desired level by switching into a regulation current-mode when the output load exceeds the current-limit threshold or a short is present. The current limit threshold is either user adjustable between 100mA and 2.1A via an external resistor or internally fixed. The power switch rise and fall times are controlled to minimize current ringing during switching.

An internal reverse-voltage detection comparator disables the power-switch if the output voltage is higher than the input voltage to protect devices on the input side of the switch. The /FLAG logic output asserts low during over current, reverse-voltage or over temperature conditions. The switch is controlled by a logic enable input active high or low.



## Evaluation/Development Tool Information

| Product          | Status | Compliance | Short Description                                    | Parts Used       | Action  |
|------------------|--------|------------|--|------------------|---|
| NCP380HSNAJAGEVB | Active | Pb-free    | High-Side Power Distribution Switch Evaluation Board | NCP380HSNAJAAT1G | <a href="#">» Contact Local Sales Office</a><br><a href="#">» Inventory</a> |

## Technical Documents

| Type                       | Document Title  | Document ID/Size                              | Rev |
|----------------------------|---|---|-----|
| Eval Board: BOM            | NCP380HSNAJAGEVB Bill of Materials ROHS Compliant                       | NCP380HSNAJAGEVB_BOM_ROHS.PDF - 154.0 KB      | 1   |
| Eval Board: Gerber         | NCP380HSNAJAGEVB Gerber Layout Files (Zip Format)                       | NCP380HSNAJAGEVB_GERBER.ZIP - 167.0 KB        | 0   |
| Eval Board: Schematic      | NCP380HSNAJAGEVB Schematic  | NCP380HSNAJAGEVB_SCHEMATIC.PDF - 32.0 KB      | 0   |
| Eval Board: Test Procedure | NCP380HSNAJAGEVB Test Procedure   | NCP380HSNAJAGEVB_TEST_PROCEDURE.PDF - 58.0 KB | 0   |
| Video                      | High-Side Power Distribution Switch Evaluation Board - NCP380HSNAJAGEVB | WVD17666/D                                    |     |

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## Design Support

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