

NCP380HMU10AGEVB: 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
NCP380HMU10AGEVB	Active	Pb-free	High-Side Power Distribution Switch Evaluation Board	NCP380HMU10AATBG	Contact Local Sales Office Inventory

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP380HMU10AGEVB Bill of Materials ROHS Compliant	NCP380HMU10AGEVB_BOM_ROHS.PDF - 76 KB	0
Eval Board: Gerber	NCP380HMU10AGEVB Gerber Layout Files (Zip Format)	NCP380HMU10AGEVB_GERBER.ZIP - 104.0 KB	0
Eval Board: Schematic	NCP380HMU10AGEVB Schematic	NCP380HMU10AGEVB_SCHEMATIC.PDF - 32.0 KB	0
Eval Board: Test Procedure	NCP380HMU10AGEVB Test Procedure	NCP380HMU10AGEVB_TEST_PROCEDURE.PDF - 75 KB	0

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