

Power Load Distribution Switch, High Side, 1 Output, 5.5V, 2.1A, 0.055ohm, UDFN-6

Manufacturers	ON Semiconductor, LLC
Package/Case	UDFN-6
Product Type	Power Management ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for NCP380HMU21AATBG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

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 500mA 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.

Features

2.5V-5.5V operating range

70 mΩ High-Side MOSFET

Adjustable and Fixed current limit

Under voltage lock-out

Built-in Soft start

Thermal Protection

Soft turn-off

Reverse voltage Protection

Enable active high or low

Compliance to IEC61000-4-2 (Level 4), 8.0 kV (Contact), and 15 kV (Air)

This is a Pb-Free Device

Application

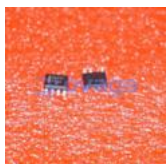
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