

USB Pos OVP and OCP, Supervisory Circuits OVP+OCP

Manufacturers	ON Semiconductor, LLC
Package/Case	UDFN-6
Product Type	Circuit Protection
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for NCP361MUTBG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

NCP361 is able to disconnect the system from its output pin in case wrong VBUS operating conditions are detected. The system is positive overvoltage protected up to +20 V. Thanks to the integrated PMOS FET, no external device is necessary, reducing the system cost and the PCB area of the application board. NCP361 is able to instantaneously disconnect the output from the input if the input voltage exceeds the overvoltage threshold (OVLO). Thanks to an overcurrent protection, the integrated PMOS is turning off when the charge current exceeds current limit (see options in ordering information). NCP361 provides a negative-going flag (FLAG) output, which alerts the system that a fault has occurred. In addition, the device has ESD protected input (15 kV Air) when bypassed with a 1.0 μ F or larger capacitor.

Features

Very Fast Protection, Up to 20 V, with 25 μ A Current Consumption

When wall adapter or AC-DC overvoltage appears, the internal pass element is turned off very fast in order to protect the downstream system. The current consumption is around 25 μ A although the very fast turn off capability.

On-chip PMOS Transistor

No external device is necessary.

Overvoltage Lockout (OVLO)

Typical OVLO is set to 5.675 V.

Undervoltage Lockout (UVLO)

Typical UVLO is set to 3.0 V.

Overcurrent Protection.

Typical OCP is set to 750 mA.

Alert FLAG Output

The microcontroller can take into account Flag status and controls thanks to EN pin the pass element state.

EN Enable Pin

The OVP device can be forced to off state thanks to this pin.

Thermal Shutdown

When internal junction temperature is exceeded, the pass element is turned off.

6-Lead UDFN 2 x 2 mm Package

Very small package, small thickness.

TSOP-5 3 x 3 mm Package

Low cost version.

These are Pb-Free Devices

Application

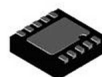
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Related Products



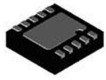
[NCP347MTAETBG](#)

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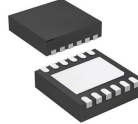
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10-WDFN Exposed...



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