

产品概览

NCP360: 过电压保护电路，USB 正向，带内部 PMOS FET 和状态标志

欲看完整文档，请参阅数据表。

NCP360 能够在检测到错误 VBUS 运行情况时将系统从其输出引脚断开。该系统受高达 +20 V 的正向过电压保护。由于集成的 PMOS FET，无需外部器件，降低了系统成本和应用主板中的 PCB 面积。如果输入电压超过过电压阈值 (OVLO)，NCP360 则能够瞬间将输出与输入断开。NCP360 提供了负向标志 (FLAG) 输出，发生故障时会向系统发出警告。另外，该器件还具有 ESD 保护输入 (15 kV Air)，使用 1.0 μ F 或更大电容器进行旁路联接。

特性

- Very Fast Protection, Up to 20 V, with 25 μ A Current Consumption
 - On-chip PMOS Transistor
 - Overvoltage Lockout (OVLO)
 - Undervoltage Lockout (UVLO)
 - Alert FLAG Output
 - EN Enable Pin
 - Thermal Shutdown
 - 6-Lead UDFN 2 x 2 mm Package
 - TSOP-5 3 x 3 mm Package
 - These are Pb-Free Devices
- For more features, see the data sheet

优势

- 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.
- No external device is necessary.
- Typical OVLO is set to 5.675 V. Additional threshold can be manufactured. Please contact your ON Semiconductor Sales contact for further information.
- Typical UVLO is set to 3.0 V. Additional thresholds can be manufactured. Please contact your ON Semiconductor Sales contact for further information.
- The microcontroller can take into account Flag status and controls thanks to EN pin the pass element state.
- The OVP device can be forced to off state thanks to this pin.
- When internal junction temperature is exceeded, the pass element is turned off.
- Very small package, small thickness.
- Low cost version.

应用

- USB Devices
- Mobile Phones
- Peripherals

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	V _{CC} Min (V)	V _{CC} Max (V)	P _(AV) Max (W)	V _{IT+} Typ (V)	V _{IT-} Typ (V)	I _{DDH} Max (μA)	T _A Min (°C)	T _A Max (°C)	Package Type
NCP360MUTBG	0.3767	Pb-free	Active	1.2	20	0.3	5.675	3	35	-40	85	UDFN-6
		Halide free non AEC-Q and PPAP										
NCP360SNAET1G	0.264	Pb-free	Active	1.2	20	0.3	6.25	3	35	-40	85	TSOP-5 / SOT-23- 5
		Halide free non AEC-Q and PPAP										
NCP360SNT1G	0.264	Pb-free	Active	1.2	20	0.3	5.675	3	35	-40	85	TSOP-5 / SOT-23- 5
		Halide free non AEC-Q and PPAP										
NCV360SNAFT1G	0.2933	AEC Qualified	Active	1.2	20	0.3	7.07	3	35	-40	85	TSOP-5 / SOT-23- 5
		PPAP Capable Pb-free Halide free										
NCV360SNT1G	0.2933	AEC Qualified	Active	1.2	20	0.3	5.675	3	35	-40	85	TSOP-5 / SOT-23- 5
		PPAP Capable Pb-free Halide free										

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