

产品概览

NCP10671: High-Voltage Switcher for low Power offline SMPS

欲看完整文档，请参阅数据表。

The NCP1067X products integrate a fixed frequency current mode controller with a 700 V MOSFET. Available in a SOIC-7 package, the NCP1067X offer a high level of integration, including soft-start, frequency-jittering, short-circuit protection, skip-cycle, ramp compensation, and a Dynamic Self-Supply (eliminating the need for an auxiliary winding).

During nominal load operation, the NCP1067X switches at one of the available frequencies (60 or 100 kHz). When the output power demand diminishes, the IC automatically enters into a skip mode to reduce the standby consumption down.

Protection features include: a timer to detect an overload or a short-circuit event, Overvoltage Protection with auto-recovery.

For improved standby performance, the connection of an auxiliary winding or supplying the IC from the output, stops the DSS operation and helps to reduce input power consumption below 15 mW at high line. NCP1067x can be seamlessly used both in non-isolated and in isolated topologies.

特性

- Built-in 700 V MOSFET with $R_{DS(on)}$ of 34 Ω
- Large Creepage Distance Between High-voltage Pins
- 250 mA Peak Current
- Direct Feedback connection for non-isolated converter
- Auto-Recovery Output Short Circuit Protection with Timer-Based Detection
- Frequency Jittering
- Current-Mode Fixed Frequency Operation – 60 or 100 kHz
- Skip-Cycle at low peak currents
- Dynamic Self-Supply

应用

- Auxiliary Power Supply Isolated and Non-isolated
- White goods (Washing, Cold, Aircon, ...)
- LED Lighting systems
- Wide Vin Industrial low power SMPS
- Power Meter SMPS

优势

- Up to 6.7W output SMPS design capability
- Safer and more robust design
- Increased design scalability
- Simpler and lower cost Buck or Buck-Boost designs
- Provides more robust protection without worrying about the coupling of the aux winding
- Better EMI Signature Over the Entire Operating Range
- Ability to scale for efficiency or size
- Improved efficiency at light loads
- No Need for an Auxiliary Winding

终端产品

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器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Control Mode	f_{sw} Typ (kHz)	f_{jitter} Typ (%)	Stand-by Mode	$R_{DS(on)}$ Typ (Ω)	$V_{DSS}^{(BR)}$ Max (V)	I_{Peak} (mA)	HV Start-up Min (V)	DSS (mA)	UVLO	Short Circuit Protection	Over Power Compensation	Brown-out	Latch	Package Type
NCP10671BD060R2G	0.3733	Pb-free Halide free	Active	Current Mode	60	Yes	Yes	34	700	250	Yes	8	7	Yes	No	No	No	SOIC8 MISING PIN 3
NCP10671BD100R2G	0.3733	Pb-free Halide free	Active	Current Mode	100	Yes	Yes	34	700	250	Yes	8	7	Yes	No	No	No	SOIC8 MISING PIN 3

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