

产品概览

NCP1340: 准谐振控制器，高电压，谷锁闭开关功能

欲看完整文档，请参阅数据表。

NCP1340 是一款高度集成的准谐振反激控制器，适用于设计高性能离线功率转换器。NCP1340 具有集成的有源 X2 电容器放电功能，可以实现低于 30 mW 的无负载功耗。准谐振电流模式反激级功能具有专属的谷锁闭电路，确保了稳定的谷开关。此系统可在低至第 6 个谷的情况下运行，并转换为频率折回模式以降低开关损耗。随着负载进一步降低，NCP1340 进入静音跳过模式来管理功率传递。为了帮助确保转换器耐用性，NCP1340 实施了若干关键保护功能，如内部欠电压检测、在任何输入电压下保证恒定最大输出功率的非功耗过功率保护 (OPP)、通过专门引脚实现的锁存过电压和 NTC 就绪高温保护，以及线路去除检测，可在去除线路时对 X2 电容器进行安全放电。

特性

- QR Frequency Jittering
- New Quiet-Skip Technology
- Integrated HV Startup with Brownout Protection
- Valley Switching Operation with Valley Lockout
- Integrated X2 Capacitor Discharge Capability
- NTC Compatible Fault Pin
- High Drive Capability: -500 mA / +800 mA
- Latch input for OVP and OTP implementations

应用

- Medium or High Power AC-DC Adapters
- Ultra High Density AC-DC Adapters

优势

- Reduces EMI Signature
- Ensures Operation Outside Audible Range
- Provides an efficient power-on source and protects against drops in input mains voltage
- Maximizing the efficiency over the entire power range
- Eliminates the need for a X2 resistors
- Extra protection against high temperature or other fault conditions
- Enables faster switching of primary-side MOSFET
- Simple implementation of required protection functions

终端产品

- Notebook Adapters
- Flat TV SMPS
- Computer Power Supplies
- Phone and Tablet Adapters

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Topology	Control Mode	f_{sw} Typ (kHz)	Stand-by Mode	UVLO (V)	Short Circuit Protection	Latch	Soft Start	V_{CC} Max (V)	Drive Cap. (mA)	Package Type
NCP1340A3D1R2G	0.4133	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	No	Yes	Yes	30	500 / 800	SOIC-9 NB
NCP1340A6DR2G	0.4	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	Yes	Yes	30	500 / 800	SOIC-8
NCP1340B10DR2G	0.4	Pb-free Halide free	NEW											SOIC-8
NCP1340B1DR2G	0.4	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-8
NCP1340B3D1R2G	0.4133	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-9 NB
NCP1340B4D1R2G	0.4133	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-9 NB
NCP1340B5D1R2G	0.4133	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-9 NB
NCP1340B6DR2G	0.4	Pb-free Halide free	Active	Flyback	Current Mode	Fixed	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-8
NCP1340B7D1R2G	0.4133	Pb-free Halide free	Active	Flyback	Current Mode	Variable	Yes	9	Yes	No	Yes	30	500 / 800	SOIC-9 NB
NCP1340B8D1R2G	0.4133	Pb-free Halide free	Active											SOIC-9 NB

欲了解更多信息，请联系您当地的销售支援 www.onsemi.cn。

创建于：7/13/2020