

产品概览

NCV8852: P 沟道, 100% 占空比, 非同步降压控制器, 汽车级

欲看完整文档, 请参阅数据表。

NCV8852 是一款可调节输出非同步降压控制器, 驱动外部 P 沟道 MOSFET。该器件使用峰值电流模式控制, 带有内部斜率补偿。该集成电路结合了为门极驱动器提供电荷的内部稳压器。保护功能包括内部设置软启动、欠电压锁闭、按周期电流限制、间歇模式过电流保护、间歇模式短路保护。其他功能包括可编程开关频率、低静止电流睡眠模式和外部可同步开关频率。

特性

- Peak Current Mode Control with Internal Slope Compensation
 - 0.8 V 2% Reference Voltage
 - Wide Input Voltage Range of 3.1 V to 36 Vdc, 44 V Load Dump
 - Input Undervoltage Lockout (UVLO)
 - Internal Soft-Start
 - Low Quiescent Current in Sleep Mode
 - Programmable Fixed Frequency 170 kHz to 500 kHz
 - External Clock Synchronization up to 600 kHz
 - Cycle-by-cycle Current Limit Protection (CL)
 - Hiccup-mode Short-Circuit Protection (SCP)
- For more features, see the data sheet

优势

- Good transient response over a wide input voltage range
- Accurate voltage regulation
- Works in a wide variety of applications
- Disables start-up in undervoltage conditions
- Lowers inrush current and avoids output overshoot during start-up
- Very low sleep current
- Allows for design flexibility
- Allows for frequency synchronization and spread spectrum operation
- Protects against over current conditions
- Protects against short circuit faults

应用

- Automotive Infotainment
- Instrumentation
- Clusters

终端产品

- Automotive Systems

器件电气规格

产品	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCV885201D1R2G	1.3333	AEC Qualified PPAP Capable Pb-free Halide free	Active	Step-Down	1	Current Mode	3.1	44	170	SOIC-8

欲了解更多信息, 请联系您当地的销售支援 www.onsemi.cn。

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