

製品概要

FAN65005A: Synchronous PWM Buck Regulator, High Performance, Voltage Mode, 65 V, 8 A

技術情報は、データシートをご参照ください。

FAN65005A is a wide VIN highly efficient synchronous buck regulator, with integrated high side and low side power MOSFETs. The device incorporates a fixed frequency voltage mode PWM controller supporting a wide voltage range from 4.5 V to 65 V and can handle continuous currents up to 8 A.

FAN65005A includes a 0.67% accurate reference voltage to achieve tight regulation. The switching frequency can be programmed from 100 kHz to 1 MHz. This single phase buck regulator offers complete protection features including Over current protection, Thermal shutdown, Under-voltage lockout, Over voltage protection, Under voltage protection and Short-circuit protection. This device is available in a compact 6 x 6 mm PQFN package.

特長

- Wide Input Voltage Range: 4.5 V to 65 V
 - Switching Frequency: 100 kHz to 1 MHz
 - 0.6 V Reference Voltage with 0.67% Accuracy
 - Selectable CCM PWM Mode or PFM Mode for Light Loads
 - Over Current Protection, Thermal Shutdown, Over Voltage Protection, Under Voltage Protection and Short-circuit Protection
 - Dual LDOs for Single Supply Operation and to Reduce Power Loss
 - External Compensation for Wide Operation Range
 - Adjustable Soft-Start & Pre-Bias Startup
 - Enable Function with Adjustable Input Voltage Under-Voltage-Lock-Out (UVLO)
 - Power Good Indicator
- For more features, see the data sheet

利点

- Supports wide range of applications
- Allows for optimization between size, efficiency, and maximum duty cycle
- Maintain voltage accuracy
- Best Efficiency at heavy loads and also at light loads
- Fully protected against voltage, current and temperature faults
- Improves efficiency by reducing power loss

アプリケーション

- High Voltage POL Module
- Telecommunications
- Networking and Servers Systems, USB-PD
- Industrial Equipments

最終製品

- Industrial Automation
- Computing
- Base Station Power Supplies
- Vending, ATM and Slot Machines
- Robotics

電氣的仕様											
製品	Compliance	Status	Topology	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	V _O Typ (V)	I _O Typ (A)	Efficiency (%)	f _{SW} Typ (kHz)	Package Type
FAN65005A	Pb-free Halide free	Active	Step-Down	Voltage Mode	4.5	65	Adjustable	8	-	100 - 1000	PQFN-35

詳細は、弊社 www.onsemi.jp の営業または販売代理店にお問い合わせください。

7/15/2019 作成