

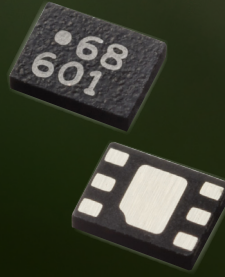
# Melexis

INSPIRED ENGINEERING

**US168**

LOW NOISE AND LOW VOLTAGE

**SINGLE-COIL  
FAN DRIVER**



The hummingbird's beating wings flap at extremely high frequencies, typically around 50 times per second. This allows it to fly at speeds exceeding 15 m/s, to fly backwards or to seemingly be suspended in the air in perfect balance. What better animal to reflect the motor/control driver and actuator capacities?

## LOW EMI EMISSIONS AND LOW ACOUSTIC NOISE

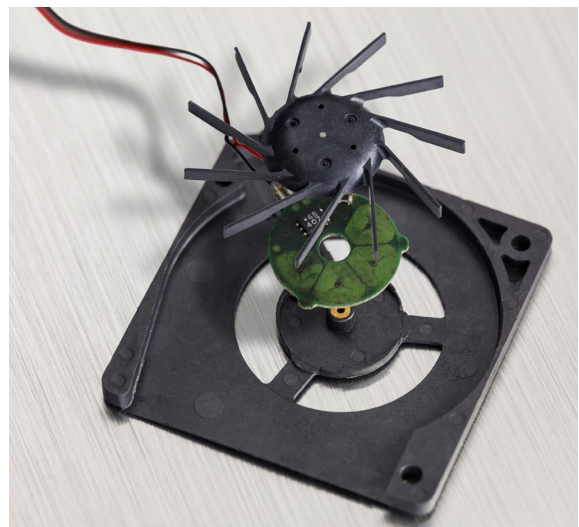
One-chip solution for driving tiny single-coil brushless DC (BLDC) fans and motors.

### US168

The US168 is a one-chip solution for driving single-coil brushless DC (BLDC) fans and motors. The use of linear Soft switching realizes low acoustic noise performance without introducing electromagnetic (EMI) noise. This avoids the need for expensive filter components to achieve automotive certification. Additionally the linear driving, in combination with the ultra-thin (0.4mm height) package, with 3mm<sup>2</sup> footprint, allows to use the fan driver in ultra thin fans (< 1cm height), including fans with coils embedded into the PCB. The US168 device includes reverse voltage protection, locked rotor protection and thermal protection. Therefore, the IC robustness perfectly suits for consumer and automotive-on-board applications.

### KEY FEATURES

- ✔ Soft switching for low noise
- ✔ Low supply voltage: 1.8 to 6.5 volt
- ✔ Full bridge driver
- ✔ High sensitivity integrated Hall sensor
- ✔ Low power consumption
- ✔ Reverse voltage protection
- ✔ Locked rotor protection and auto-restart
- ✔ Thermal protection and auto-restart
- ✔ No external components needed
- ✔ Tachometer output signal (FG)
- ✔ Ultra thin (0.4mm) UTDFN 6L 1.5x2mm



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Melexis

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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