

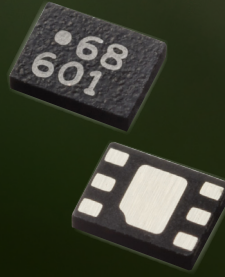
# Melexis

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

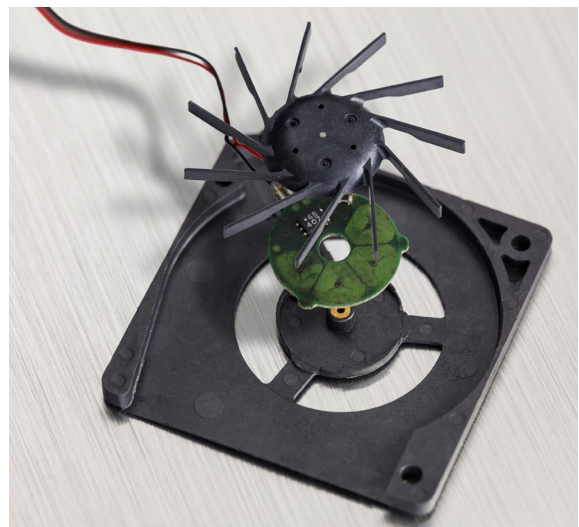
One-chip solution for driving tiny single-coil brushless DC (BLDC) fans and motors.

### 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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FOR MORE INFORMATION: [WWW.MELEXIS.COM/US168](http://WWW.MELEXIS.COM/US168)

Melexis

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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