

US168

LOW NOISE AND LOW VOLTAGE

SINGLE-COIL FAN DRIVER

e hummingourd's beating wings flop at extremely high quencies, typically around 50 times per second. This allows it fly at speeds exceeding 15 ms, to fly backwards or to seeming usepended in the air in perfect balance. What better animal to lect 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 3mm² footprint, allows to use the fandriver 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
- Solution Contemporary Contempor
- S Full bridge driver
- Itigh sensitivity integrated Hall sensor
- S Low power consumption
- Severse 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



Ihe above intomations's as's and believed to be correct and accurate. Meleosi disclaims any and alliability in connection with or a ring rout of the turnshing, application or use of the information or products, any and alliability including without limitation, special, consequential or including the level of reliability required and determine whether it is fit for a particular purplex. They determine the suitability of a product for its applications, three soft and they and they are limited in the level of reliability required and determine whether it is fit for a particular purpose. Export control regulations requiring extended tempes and within the suitability of a product for its applications. The level of reliability required and determine whether it is fit for a particular purpose. Export control regulations requiring extended temperature angle and/or and/or advect and angle and/or advect a

