

# Single-Phase DC Brushless Motor Driver ICs

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## NJU7332 & NJU7333

### Single-Phase DC Brushless Motor Driver ICs

#### General Description

The NJU7332 and NJU7333 are a single-phase DC brushless motor driver ICs for small fan-motors and high power applications. They feature a MOSFET driver circuit for better saturation characteristics. Slew rate of amplifiers and feedback resistors are optimized to achieve low-noise motor operation. Maximum output current is 500mA for the NJU7333 and 100mA for the NJU7332.

The NJU7333 includes a frequency generator (FG) output, lock detect (with auto recovery circuit), and a thermal shutdown circuit.

The NJU7332 has a very small FFP package, therefore it is suitable for micro motor applications.

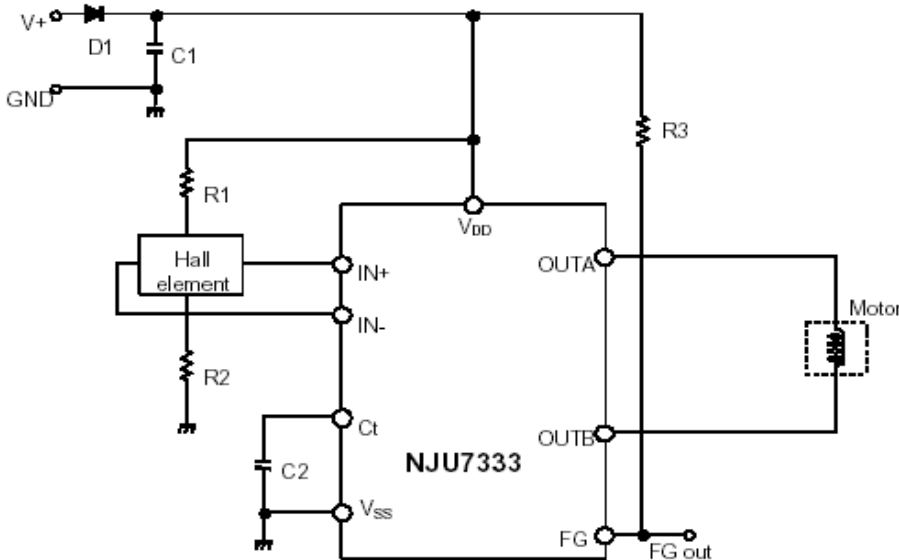
#### Features

- Operating Voltage  $V_{DD}=2.4 \sim 5.5V$
- Frequency Generator (FG) Output (NJU7333 only)
- Internal Lock Detect / Auto Recovery Circuit (NJU7333 only)
- Internal Thermal Shutdown Circuit (NJU7333 only)
- Low Operating Current
- Low Saturation Output Voltage
- CMOS Technology
- Package Outline VSP10 (NJU7333 only)
- Package Outline FFP12 (2x2x0.85mm) (NJU7332 only)

#### Applications

- Small fan motors
- High power applications
- Micro motor applications

#### NJU7332 and NJM7333 Application Circuit Example



- Note:** Please see data sheets for
1. Selection of C1 and D1
  2. Lock protection function (Design of C2 value).
  3. Design of hall element bias resistance (R1 and R2).
  4. Design of frequency generator (FG) output resistance (R3).

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