

DESCRIPTION

The AGV8002 is a full featured single phase brushless DC fan/motor pre-driver. Closed loop feedback allows for precise control of the motor's RPM under varying supply and load conditions.

Maximum RPM is programmable via an RC time constant. Precise variable speed is adjusted by varying the duty cycle to the PWM control input pin. This allows the AGV8002 to interface with industry standard digital temperature sensors. The analog control pin can be used to interface with a thermistor when the PWM input control is not needed.

Soft start reduces inrush current at power on. Soft switching reduces audible noise. Current limit, locked rotor and thermal protections are also provided. The 40V MOS output predrivers can source or sink 100mA.



FEATURES

- Precise variable speed control for 4-wire fans
- Closed loop RPM control
- Programmable max RPM
- Separate Tach and Alarm Pins
- Soft start to reduce inrush current
- Soft switching to reduce audible noise
- Current limit protection
- Locked rotor detect and auto-retry
- Integrated Hall amplifier
- Interfaces with standard digital temp sensors
- Available in 16 lead SOIC and QSOP
RoHS=compliant packages

APPLICATIONS

- PCs, workstations, servers
- Industrial fans and blowers

