

Features

- 500 V RDS(on) = 0.7 ohm (Typ.)
MOSFET 3 phase Inverter with Gate Drivers
- Built-in Bootstrap Diodes
- Separate Open-Source Pins from Low-Side MOSFETS for each phase current sensing
- CMOS compatible input (3.3 to 5 V)
- Build in Dead Time Function That Prevent MOS shoot through
- Protections include:
Under voltage Lockout for power supply
High-side (UVLO_VBS): Auto-restart
Low-side (UVLO_VCC): Auto-restart
- Temperature-Sensing Built-in for Temperature Monitoring
- Green Product (RoHS, Lead-Free, Halogen-Free Compliant)

Applications

- Air Condition Fan
- Small Ventilation Fan
- Dishwasher Pump
- BLDC Fan

General Description

The GS9601 inverter power module (IPM) provide a highly integrated solution for optimally controlling 3 phase BLDC、PMSM and AC induction motors. The Inverter Power Module built in the MOSFETs, bootstrap diodes and optimized gate driver IC to minimize the power losses and EMI. The device provides multiple protection features including the under voltage lockouts (VBS and VCC) and thermal monitoring.

It is easy to control a 3 phase motor by just putting logic inputs from a MCU or motor controller by using a single supply voltage. Separate open source MOSFET terminals are available for each phase to support the variety of control algorithms.