

# MS39748

## Three-Phase Sensorless Motor Driver IC

### FEATURES

- Configure Speed Curve by EEPROM
- I<sup>2</sup>C Communication Interface
- Low Noise Drive
- Sensorless (No Hall Sensors Required)
- Low R<sub>DS(ON)</sub> Power MOSFETs
- LDO Specification 3.3V/20mA
- Speed Control Mode includes PWM Control and Analog Voltage Control
- FG Speed Output
- Slew Rate Control
- Lock Detection
- Soft Start
- Low Power Dissipation Mode
- Overvoltage, Overcurrent Protection and Thermal Shutdown

### PRODUCT DESCRIPTION

The MS39748 is a three-phase motor driver IC, which incorporates sensorless sinusoidal wave drive, and can minimize fan vibration when applied to most of fan drives. Sensorless control eliminates the need of hall sensor for fan application.

The MS39748 has a flexible closed-loop speed control system. EEPROM can customize fan speed curve according to specified application. IC can be used without microprocessor after programming.

### APPLICATIONS

- White Electric Fan Application
- Automotive Electric Fan Application

### ORDERING GUIDE

Part Number	Package	Marking
MS39748N	QFN16	MS39748N

### BLOCK DIAGRAM

