

**SINGLE PHASE FULL WAVE DIRECT PWM MOTOR DRIVER****AM4962****Description**

The AM4962 is a full wave driver IC with direct PWM control function. It is used for single phase motor and is capable of speed control by PWM pulse.

The AM4962 is available in HTSSOP-14 and SSOP-16 packages.

**Features**

- The Motor Speed is Controlled by PWM Pulse Directly
- Built-in Triangle Wave Circuit Without Extra Oscillation Capacitor
- Built-in Hall Bias Circuit
- Built-in Minimal Speed Setup Circuit
- Slope K\* Adjustable
- Rotation Speed Indication (FG)
- Rotation or Lock State Indication (RD)
- Built-in Thermal Shutdown Circuit
- Lock Protection and Auto-restart
- Output Current Limit

\* Slope K is the slope of output PWM duty vs. input PWM duty

**Applications**

- CPU Cooler Fan in PC
- Brushless DC Motor Driver

**Parametric Table**

( $V_{CC}=12V$ ,  $T_A=25^{\circ}C$ , unless otherwise noted.)

Quiescent Current (mA)	15
Output Saturation Voltage at High Side (V)	1.0
Output Saturation Voltage at Low Side (V)	0.2
CPWM Frequency (kHz)	25
CF High Level Voltage (V)	3.6
CF Low Level Voltage (V)	1.95
FG Output Low Level Voltage (V)	0.2
RD Output Low Level Voltage (V)	0.2

**Benefits**

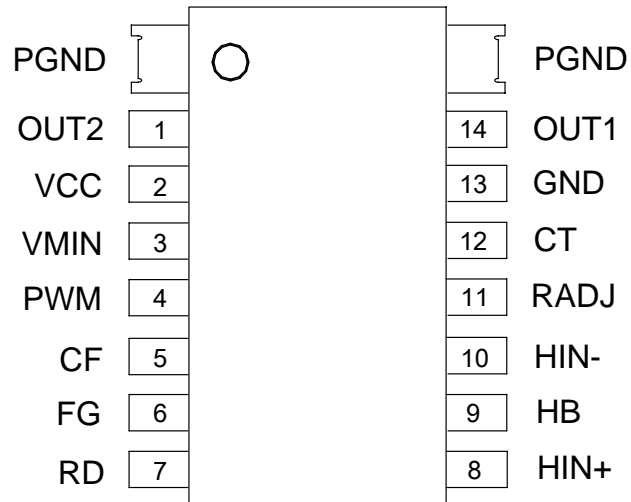
- Low Start-up Voltage of 3.5V
- Low Supply Current
- Maximum Output Current of 1.0A
- With Output Current Limit
- Minimum External Components
- Easier PCB Layout and Production
- High Performance and Cost-effect Solution
- Flexible Choice of Packages as Application's need: SSOP-16 and HTSSOP-14

**Additional Available Materials**

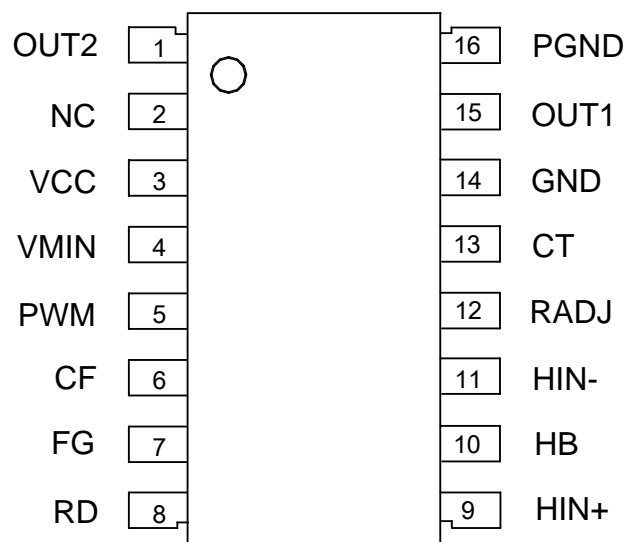
- Samples
- Data Sheet
- Reliability Report
- ESD Report

**Pin Configuration**

HTSSOP-14



SSOP-16



**SINGLE PHASE FULL WAVE DIRECT PWM MOTOR DRIVER****AM4962****Ordering Information Example**

Package	Temperature Range	Part Number	Marking ID	Packing Type
HTSSOP-14	-30 to 90°C	AM4962GH-G1	AM4962GH-G1	Tube
		AM4962GHTR-G1	AM4962GH-G1	Tape & Reel
SSOP-16		AM4962GS-G1	AM4962GS-G1	Tube
		AM4962GSTR-G1	AM4962GS-G1	Tape & Reel

Detailed information please refer to the relevant datasheet.

**Sales Office:****Shanghai**

No. 1600, Zi Xing Road, Shanghai ZiZhu Science-based Industrial Park, 200241, China  
Tel : 86-21-24162266  
Fax : 86-21-24162277

**Taiwan**

4F, 298-1 Rui Guang Road, Nei-Hu District, Taipei, Taiwan  
Tel : 886-2-2656-2808  
Fax : 886-2-2656-2806

**USA**

30920 Huntwood Ave. Hayward, CA 94544, USA  
Tel : +1-510-324-2988  
Fax : +1-510-324-2788

**Shenzhen**

Room E, 5F, Noble Center, No.1006, 3rd Fuzhong Road, Futian District, Shenzhen 518026, China  
Tel : 86-755-8826 7951  
Fax : 86-755-8826 7865