

**SINGLE PHASE FULL WAVE DIRECT PWM MOTOR DRIVER****AM4961****Description**

The AM4961 is a full wave driver IC with PWM control function. It is used for single phase motor and is capable of speed control by changing output duty cycle.

The AM4961 is available in SSOP-16 and HTSSOP-14 packages.

**Features**

- Built-in Hall Bias Circuit
- Built-in PWM Speed Control Circuit
- Built-in Minimal Speed Setup Circuit
- Rotation Speed Indication (FG)
- Rotation or Lock State Indication (RD)
- Built-in Thermal Shutdown Circuit
- Lock Protection
- Output Current Limit

**Applications**

- CPU Cooler Fan in PC
- Brushless DC Motor Driver

**Benefits**

- Low Start-up Voltage of 3.5V
- Low Supply Current
- Maximum Output Current of 1.0A
- With Output Current Limit
- Flexible Choice of Packages as application's need: SSOP-16 and HTSSOP-14

**Parametric Table**

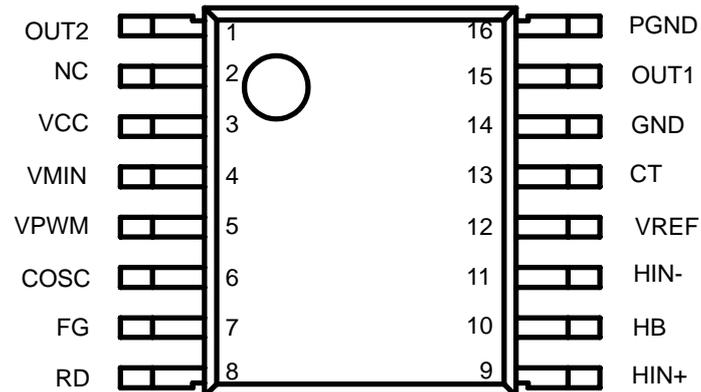
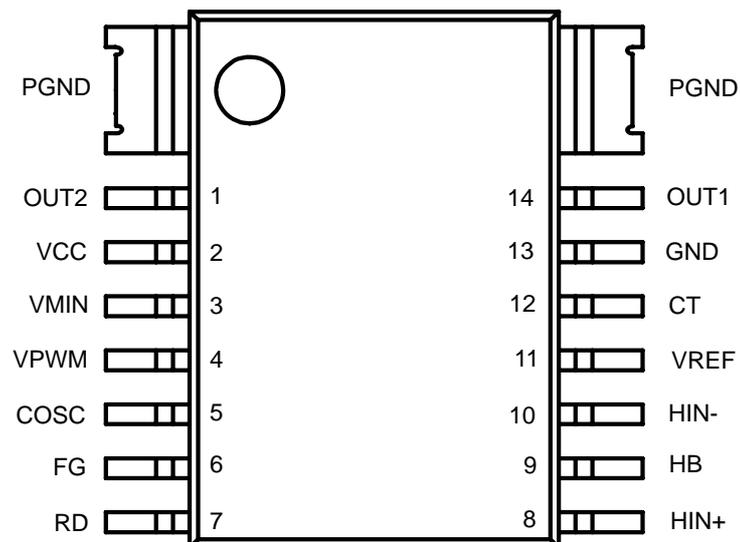
( $V_{CC}=12V$ ,  $T_A=25^{\circ}C$ , unless otherwise noted.)

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

**Additional Available Materials**

- Samples
- Data Sheet
- Reliability Report
- ESD Report

**Pin Configuration**

 GS Package  
(SSOP-16)

 GH Package  
(HTSSOP-14)


**SINGLE PHASE FULL WAVE DIRECT PWM MOTOR DRIVER****AM4961****Ordering Information Example**

Package	Temperature Range	Part Number		Marking ID		Packing Type
		Lead Free	Green	Lead Free	Green	
SSOP-16	-30 to 90°C	AM4961GS-E1	AM4961GS-G1	AM4961GS	AM4961GS-G1	Tube
		AM4961GSTR-E1	AM4961GSTR-G1	AM4961GS	AM4961GS-G1	Tape & Reel
HTSSOP-14		AM4961GH-E1	AM4961GH-G1	AM4961GH	AM4961GH-G1	Tube
		AM4961GHTR-E1	AM4961GHTR-G1	AM4961GH	AM4961GH-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