

Single Phase Full Wave Direct PWM Motor Driver AM4963/AM4963R

Description

The AM4963/AM4963R is a full wave driver IC with direct PWM control function and thermal resistor control function. It is used for single phase motor and is capable of speed control by PWM pulse and thermal resistor at the same time.

The AM4963/AM4963R is available in SSOP-16 and HTSSOP-14 packages.

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Features

- The Motor Speed is Controlled by PWM Pulse Directly and Thermal Resistor at the Same Time
- Low Corner Temperature (30°C) Adjustable
- High Corner Temperature (38°C) Adjustable
- Full Speed when Thermal Resistor Shorten
- Built-in Triangle Wave Circuit without Extra Oscillation Capacitor
- Built-in Minimal Speed Setup Circuit
- Alpha Slope Adjustable
- Rotation Speed Indicator (FG)
- Rotation/lock State Indicator (RD)
- Built-in Temperature Control Circuit
- Built-in Thermal Shutdown CircuitLock Protection and Auto-restart

Applications

- CPU Cooler Fan in PC
- Brushless DC Motor Driver

Parametric Table

 $V_{CC}=12V$

Supply Voltage (V)	3.5 to 18
Supply Current (mA) V _{CT} =L	15
Output Saturation (V)	1.2
Output Current (Max) (A)	1.0
CT Charge Current (μA)	2.3
CT Discharge Current (µA)	0.23
CT Charge and Discharge Ratio	10
FG Output Low Level Voltage (V)	0.2
RD Output Low Level Voltage (V)	0.2

Benefits

- Speed Control by Both Thermistor and Direct PWM
- Minimum External Components
- Temperature High/Low Adjustable
- Low Startup Voltage: 3.5V
- Cost-effect Solution

Additional Available Materials

- Samples
- Data Sheet
- Reliability Report
- ESD Report

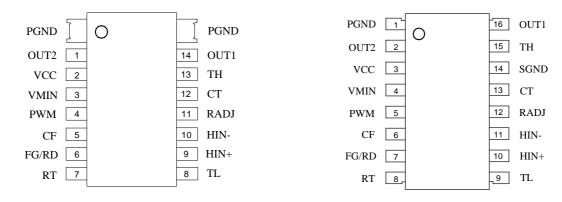


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Pin Configuration

HTSSOP-14

SSOP-16



Ordering Information Example

Package	Temperature Range	Part Number	Marking ID	Packing Type
HTSSOP-14	-30 to 90°C	AM4963GH-G1	AM4963GH-G1	Tube
		AM4963GHTR-G1	AM4963GH-G1	Tape & Reel
		AM4963RGH-G1	AM4963RGH-G1	Tube
		AM4963RGHTR-G1	AM4963RGH-G1	Tape & Reel
SSOP-16		AM4963GS-G1	AM4963GS-G1	Tube
		AM4963GSTR-G1	AM4963GS-G1	Tape & Reel
		AM4963RGS-G1	AM4963RGS-G1	Tube
		AM4963RGSTR-G1	AM4963RGS-G1	Tape & Reel

Detailed information please refer to the relevant datasheet.

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