Product Overview

LV8824QA: PWM Pre-Drive Three-Phase Brushless Motor Driver

For complete documentation, see the data sheet.

The LV8824QA is a PWM pre-driver IC suitable for use in 3-phase brushless motors. This IC was designed based on the assumption that Nch FETs are used as the upper and lower output transistors. The rotational speed is controllable by inputting PWM pulse or DC voltage externally and changing duty. LV8824QA incorporates latch-type constraint protection circuit.

Features

- IO max = 50mA
- Speed control and synchronous rectification by PWM direct input (3.3V input-ready) and DC voltage.
- 3-Hall FG output
- Latch type constraint protection circuit (latch is released by S/B and F/R.)
- Forward/reverse switch circuit, Hall bias pin
- Power saving circuit
- Current limiter circuit, Low-voltage protection circuit, Thermal shut-down circuit
- Charge pump circuit (external Nch/Nch), 5V regulator output.
- Start/Brake circuit

Part Electrical Specifications

Product	Compliance	Status	Phase	V_M Min (V)	V_M Max (V)	V_{CC} Min (V)	V_{CC} Max (V)	I_O Max (A)	I_O Peak Max (A)	Control Type	Package Type
LV8824QA-NH	Pb-free Halide free	Active	3			7	33		0.05	PWM	WQFN-32 / VQFN-32U

For more information please contact your local sales support at www.onsemi.com.

Created on: 1/23/2019