



## Product Overview

### LB1975: 3-Phase Brushless Motor Driver

For complete documentation, see the data sheet

#### Product Description

LB1975 is a 3-phase brushless motor driver IC suited for use in direct PWM driving DC fan motors for air conditioners, water heaters and other similar equipment. Because a shunt regulator circuit is built in, single power supply operation sharing the same power supply for the motor is supported.

#### Features

- Withstand voltage 46 V, output current 2.5 A
- Direct PWM drive output
- 3 integrated output top-side diodes
- Integrated current limiter
- Integrated FG output circuit

#### Applications

- Fan motor control

#### End Products

- Air conditioners
- Water heaters

#### Part Electrical Specifications

Product	Compliance	Status	Phase	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Control Type	Current Sense	Regulator Output	Fault Detection	R <sub>DS(on)</sub> Typ (Ω)	Package Type
LB1975-E	Pb-free	Active	3	20	42	4.5	7	2.5		DC	External Resistor		Over-Current		PDIP-30

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