Product Overview

LB11870: Motor Driver, 3-Phase, Brushless

For complete documentation, see the data sheet.

The LB11870 is a three-phase brushless motor driver developed for driving the motors used with the polygonal mirror in laser printers and plain paper copiers. It can implement, with a single IC chip, all the circuits required for polygonal mirror drive, including speed control and driver functions. The LB11870 can implement motor drive with minimal power loss due to its use of direct PWM drive.

Features

- Three-phase bipolar drive
- Direct PWM drive
- Includes six high and low side diodes on chip.
- Output current control circuit
- PLL speed control circuit
- Phase lock detection output (with masking function)
- Includes current limiter, thermal protection, rotor constraint protection, and low-voltage protection circuits on chip.
- Deceleration type switching circuit (free running or reverse torque)
- PWM oscillator
- Power saving circuit

  For more features, see the data sheet

End Products

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
LB11870-TRM-E	Pb-free	Active	3	9.5	28	9.5	28		2.3	PWM	HSSOP-48

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

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