

Product Overview

LV8139JA: Sine wave PWM Drive, Pre drive IC, for Brushless Motor Drive

For complete documentation, see the data sheet.

The LV8139JA is a PWM system pre driver IC designed for three-phase brushless motors. This IC reduces motor driving noise by using a high-efficiency, sine wave PWM drive type. It incorporates a full complement of protection circuits and, by combining it with a hybrid IC in the STK611 or STK5C4 series, the number of components used can be reduced and a high level of reliability can be achieved. Furthermore, its power-saving mode enables the power consumption in the standby mode to be reduced to zero. This IC is optimally suited for driving various large-size motors such as those used in air conditioners and hot-water heaters.

Features

- Three-phase bipolar drive
- Sine wave PWM drive
- Drive phase setting function (Set 0-58° 32 steps: There is an adjustment function corresponding to the CTL pin input)
- Supports power saving mode(power saving mode at CTL pin voltage of 0.95V (typ) or less; ICC = 0mA, HB pin turned off)
- Supports bootstrap
- Automatic recovery type constraint protection circuit
- Forward/reverse switching circuit, Hall bias pin
- Current limiter circuit, low-voltage protection circuit, and thermal shutdown protection circuit
- FG1 and FG3 output (360-degree electrical angle/1 pulse and 3 pulses)

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
LV8139JA-AH	Pb-free Halide free	Active	3			9.5	16.5	0.015		DC	SSOP-30

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

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