

Product Overview

LV8735V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet.

The LV8735V is a 2-channel H-bridge driver IC that can switch a stepper motor driver, which is capable of micro-step drive and supports 1/16 step excitation, and two channels of a brushed motor driver, which supports forward, reverse, brake, and standby of a motor. It is ideally suited for driving brushed DC motors and stepper motors used in office equipment and amusement applications.

Features

- Low on resistance (upper side : 0.75Ω ; lower side : 0.5Ω ; total of upper and lower : 1.25Ω ; Ta = 25°C, IO = 1A)
 - Excitation mode can be set to Full step, Half step, 1/8 step, or 1/16 step
 - Motor current selectable in four steps
 - Output short-circuit protection circuit (selectable from latch-type or auto-reset-type) incorporated
 - Built-in thermal shutdown circuit
 - No control power supply required
 - CLK-IN Input
 - Single-channel PWM current control stepper motor driver (selectable with DC motor driver channel 2) incorporated.
 - BiCDMOS process IC
 - Excitation step proceeds only by step signal input
- For more features, see the data sheet

Benefits

- High Efficiency
- Various Step Adjustment Available
- Low Consumption
- Safety Design
- Thermal protection
- Easy Design
- Easy Control for Micro-step Drive

Applications

- Stepper/Brush DC Motors
- Computing & Peripherals
- Industrial

End Products

- Inkjet Printer
- Flatbed Scanner
- Multi-Function Printer
- Document Scanner
- PoE Security Camera

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	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)	Step Resolution	Control Type	Current Sense	Fault Detection	Package Type
LV8735V-TLM-H	1.98	Pb-free Halide free	Active	9	32	9	32	1	1.5	1/16	Clock	External Resistor	UVLO	SSOP-44K EP

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

Created on: 7/9/2020