

Product Overview

LV8734V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet.

The LV8734V is a 2-channel H-bridge driver IC that can switch a stepper motor driver, which is capable of micro-step drive and supports 2W 1-2 phase 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: 0.48Ω ; lower side: 0.32Ω ; total of upper and lower: 0.8Ω , Ta = 25°C, IO=1.5A)
 - Output short-circuit protection circuit (selectable from latch type or auto-reset type) incorporated
 - Excitation : Full, Half, Quarter, 1/8 Step
 - Motor current Selectable in 4 Steps
 - OCP : Latch/Auto reset
 - CLK-IN Input
 - This device is a single channel PWM current control stepping motor driver (selectable with DC motor driver channel 2)
 - Excitation mode can be set to 2-phase, 1-2 phase, W1-2 phase, or 4W1-2 phase
 - Unusual condition warning output pins
 - No control power supply required
- For more features, see the data sheet

Benefits

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

Applications

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

End Products

- Printers
- Flatbed Scanner
- Inkjet Printer
- Multi-Function Printer
- Document Scanner

Part Electrical Specifications

Product	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
LV8734V-TLM-H	Pb-free Halide free	Active	9	32	9	32	1.5	1.75	1	Clock	External Resistor	Over-Current	SSOP-44K EP

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

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