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: 0.48 ; lower side: 0.32 ; total of upper and lower: 0.8 , Ta = 25°C, I_O=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	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	$R_{DS(on)}$ Typ ()	Package Type
LV8734V-TLM-H	Pb-free Halide free	Active	9	32	9	32	1.5	1.75	1	Clock		External Resistor		Over-Current		0.8	SSOP-44K EP

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