



Product Overview

LV8735V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

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	Benefits
<ul style="list-style-type: none"> Low on resistance (upper side : 0.75 ; lower side : 0.5 ; total of upper and lower : 1.25 ; 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 	<ul style="list-style-type: none"> High Efficiency Various Step Adjustment Available Low Consumption Safety Design Thermal protection Easy Design Easy Control for Micro-step Drive

Applications	End Products
<ul style="list-style-type: none"> Stepper/Brush DC Motors Computing & Peripherals Industrial 	<ul style="list-style-type: none"> Inkjet Printer Flatbed Scanner Multi-Function Printer Document Scanner PoE Security Camera

Part Electrical Specifications

Product	Compliance	Status	Type	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 (Ω)	Package Type
LV8735V-MPB-H	Pb-free Halide free	Active	Stepper/Brush DC	9	32	9	32	1	1.5	1/2 1 1/16 1/8	Clock Parallel		External Resistor		Over-Current Thermal UVLO		1.25	SSOP-44K EP
LV8735V-TLM-H	Pb-free Halide free	Active	Stepper/Brush DC	9	32	9	32	1	1.5	1/2 1 1/16 1/8	Clock Parallel		External Resistor		Over-Current Thermal UVLO		1.25	SSOP-44K EP

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

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