# Product Overview

## LV8731V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet.

The LV8731V is a 2-channel H-bridge driver IC that can switch a stepper motor driver, which is capable of micro-step drive and supports 4W 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 : 0.3Ω; lower side : 0.25Ω; total of upper and lower : 0.55Ω; Ta = 25°C, IO = 2A)
- Excitation mode can be set to 2-phase, 1-2 phase, W1-2 phase , or 4W1-2 phase
- Motor current selectable in four steps
- Output short-circuit protection circuit (selectable from latch-type or auto-reset-type) incorporated
- 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
- Unusual condition warning output pins

  For more features, see the data sheet

## Benefits

- High Efficiency
- Various Step Adjustment Available
- Low Consumption
- Safety Design
- Easy 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 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LV8731V-TLM-H | 1.2133 | Pb-free<br>Halide free<br>non AEC-Q and PPAP | Active | 9 | 32 | | | 2 | 2.5 | 1 | Clock<br>Parallel | External Resistor | Over-Current | SSOP-44K EP |

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

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