Product Overview

LV8732V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

The LV8732V 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 : 0.3; lower side : 0.25; total of upper and lower : 0.55; Ta = 25°C, IO = 2A)
- Excitation mode can be set to 2-phase, 1-2 phase, W1-2 phase , or 2W1-2 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

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	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	Package Type
LV8732V-MPB-H	Pb-free Halide free	Active	Stepper/ Brush DC	9	36			2	2.5	¼ ½ 1 1/8	Clock Parallel	None	External Resistor	Yes	Over-Current Thermal	Integrated Active	SSOP-44KEP
LV8732V-TLM-H	Pb-free Halide free	Active	Stepper/ Brush DC	9	36			2	2.5	¼ ½ 1 1/8	Clock Parallel	None	External Resistor	Yes	Over-Current Thermal	Integrated Active	SSOP-44KEP

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

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