Product Overview

LV8736V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

The LV8736V 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

- 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, Quarter step , or 1/16 step
- Output short-circuit protection circuit (selectable from latch-type or auto-reset-type) incorporated
- Built-in thermal shutdown circuit
- No control power supply required
- Motor current Selectable in four Steps
- OCP : Latch/Auto reset
- CLK-IN Input
- Single-channel PWM current control stepper motor driver (selectable with DC motor driver channel 2) incorporated.
- BiCDMOS process IC

  For more features, see the data sheet

Benefits

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

Applications

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

End Products

- Flatbed Scanner
- Inkjet Printer
- Multi-Function Printer
- Document Scanner
- PoE Security Camera

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
LV8736V-TLM-H	Pb-free Halide free	Active	9	32	9	32	1	1.5	1	Parallel		External Resistor		Over-Current		1.25	SSOP-44K EP

Created on: 6/11/2016