

Product Overview

LV8740V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

The LV8740V is a 2-channel H-bridge driver IC that can switch a stepper motor driver, which is capable of micro-step drive and supports Quarter-step excitation, and two channels of a brushed DC 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

- On resistance (upper side : 0.3; lower side : 0.2; total of upper and lower : 0.5; Ta = 25°C, IO = 2.5A)
- Excitation mode can be set to Full-step, Half-step full torque, Half-step, or Quarter-step
- Motor holding current selectable in four steps
- Output short-circuit protection circuit (selectable from latchtype or auto reset-type) incorporated
- · Built-in thermal shutdown circuit
- · No control power supply required
- 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

- · Good Thermal Performance, High efficiency
- Various Step Adjustment Available
- · Low Consumption
- Safety design
- Thermal protection
- Easy Design

Applications

- · Computing & Peripherals
- Industrial

End Products

- · Flatbed Scanner
- Inkjet Printer
- · Multi-Function Printer
- Document Scanner
- Slot Machine

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 Reso lution	Contr ol Type	Feed back Meth od	Curre nt Sens e	Regu lator Outp ut	Dete ction	Flyba ck Prote ction		Pack age Type
LV8740V-MPB-E	Pb-free	Active	9	35	9	35	2.5	3	?	Clock		Exter nal Resis tor		UVL O		0.5	SSO P- 44J EP
LV8740V-TLM-E	Pb-free	Active	9	35	9	35	2.5	3	1	Clock		Exter nal Resis tor		Over- Curre nt		0.5	SSO P- 44J EP

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

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