

Product Overview

LV8746V: PWM Constant-Current Control Stepper Motor Driver

For complete documentation, see the data sheet

Product Description

The LV8746V is a stepper motor driver corresponding to the Quarter-step excitation drive that the selection of CLK-IN input and a parallel input is possible. It is ideally suited for driving stepper motors used in office equipment and amusement applications.

Features

- Low on resistance (upper side : 0.84 ; lower side : 0.7 ; total of upper and lower : 1.54 ; Ta = 25°C, IO = 1A)
- Excitation mode can be set to Full-step, Half-step Full torque, Half-step, or Quarter-step
- Motor current selectable in four steps
- Output short-circuit protection circuit (selectable from latch-type or auto-reset-type) incorporated
- CLK-IN input and a parallel input can be selected
- PWM current control stepper motor driver incorporated.
- BiCMOS process IC
- CLK-IN input and a parallel input can be selected.
- Unusual condition warning output pins
- No control power supply required

Benefits

- High Efficiency
- Various Step Adjustment Available
- Low Consumption
- Safety Design
- Various Input Type Available

Applications

- Stepper 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
LV8746V-MPB-E	Pb-free	Active	Stepper	9	38			1	1.2	$\frac{1}{2}$ $\frac{1}{4}$	Clock Parallel	None	External Resistor	Yes	Over-Current Thermal	Integrated Active	SSOP-44K EP
LV8746V-TLM-E	Pb-free	Active	Stepper	9	38			1	1.2	$\frac{1}{2}$ $\frac{1}{4}$	Clock Parallel	None	External Resistor	Yes	Over-Current Thermal	Integrated Active	SSOP-44K EP

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

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