

Product Overview

LV8741V: PWM Current Control Stepper Motor Driver

For complete documentation, see the data sheet.

The LV8741V 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 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 : 0.5Ω ; lower side : 0.5Ω ; total of upper and lower : 1.0Ω ; Ta = 25°C, IO = 1.5A)
- 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
- Thermal shutdown circuit and power supply monitor circuit incorporated
- 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
- IO max = 1.5A

For more features, see the data sheet

Benefits

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

Applications

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

End Products

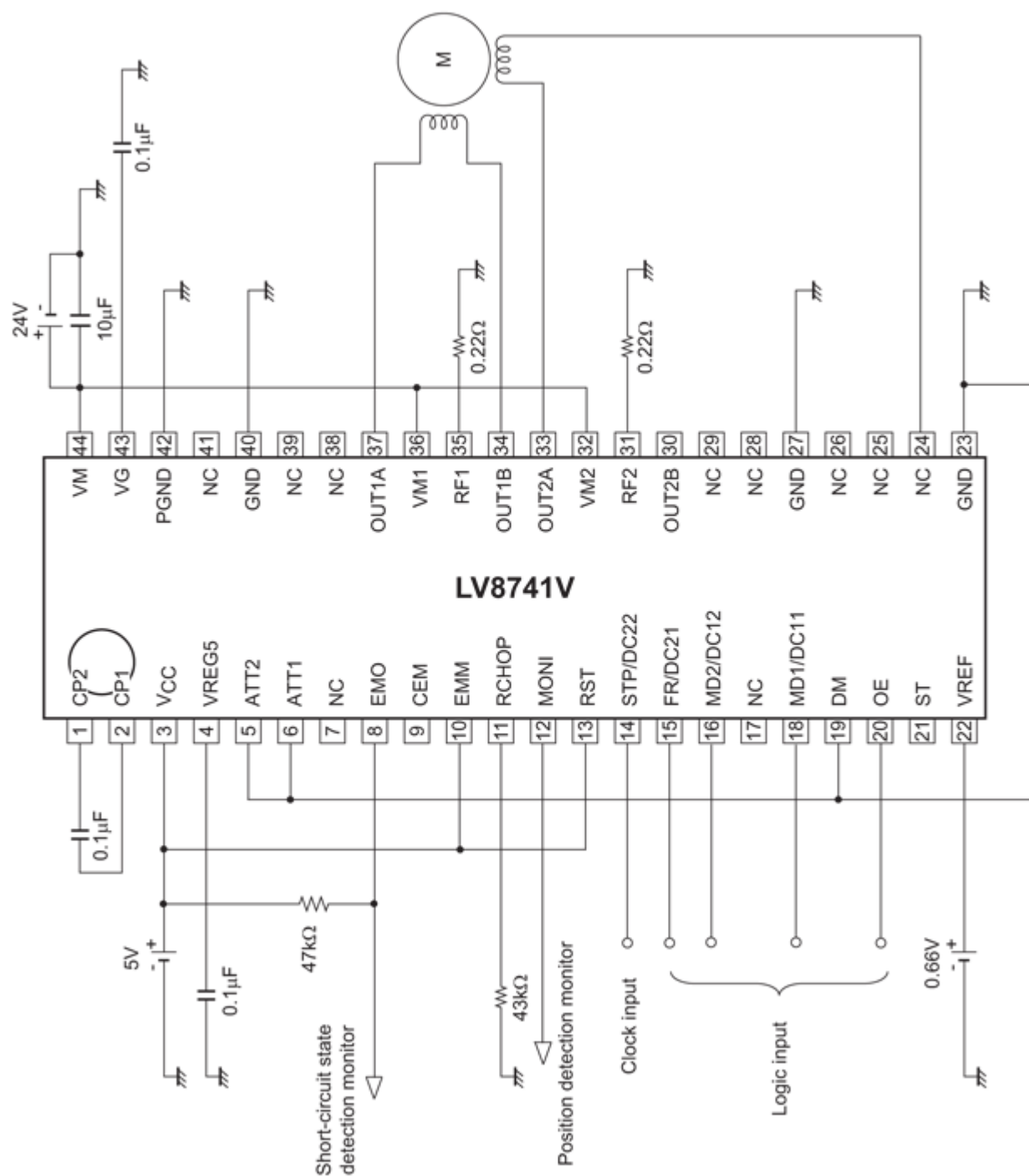
- Printers
- Flatbed Scanner
- Inkjet Printer
- Multi-Function Printer
- Document Scanner

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
LV8741V-TLM-E	1.6973	Pb-free	Active	9.5	35	2.7	5.5	1.5	1.75	1/2	Clock	External Resistor	Over-Current	SSOP-44K EP

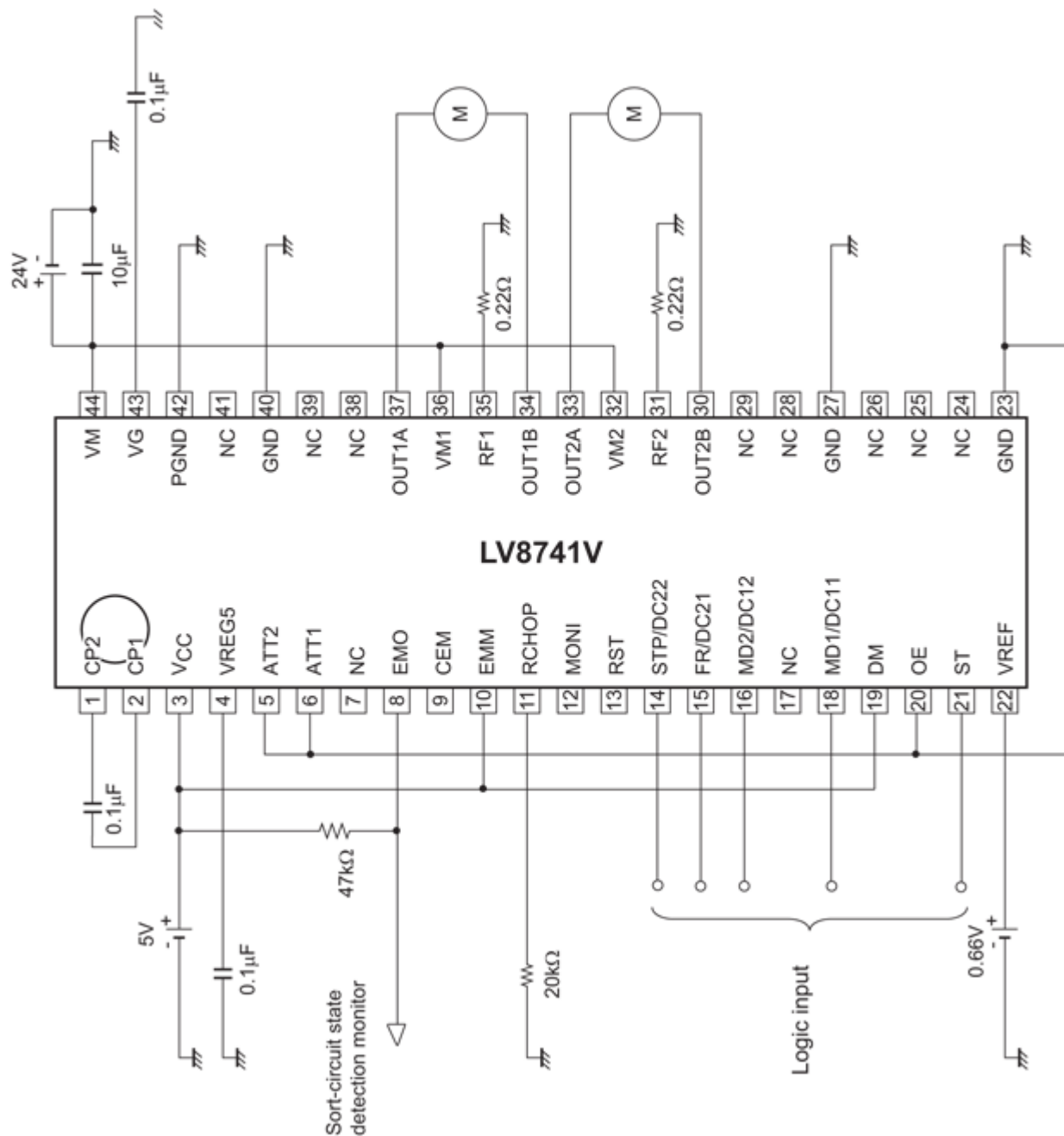
Application Diagram

Stepper motor driver application circuit example



* Please refer to a Datasheet for the instructions.

DC motor driver application circuit example



* Please refer to a Datasheet for the instructions.

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

Created on: 6/1/2020