

Product Overview

LV8735V: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

The LV8735V 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	Benefits
 Low on resistance (upper side : 0.75; lower side : 0.5; total of upper and lower : 1.25; Ta = 25°C, IO = 1A) 	High Efficiency
 Excitation mode can be set to Full step, Half step, 1/8 step, or 1/16 step 	Various Step Adjustment Available
 Motor current selectable in four steps 	Low Consumption
 Output short-circuit protection circuit (selectable from latch- type or auto-reset-type) incorporated 	Safety Design
 Built-in thermal shutdown circuit 	Thermal protection
 No control power supply required 	Easy Design
CLK-IN Input	 Easy Control for Micro-step Drive
 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 	
For more features, see the data sheet	

Applications	End Products	
 Stepper/Brush DC Motors 	Inkjet Printer	
 Computing & Peripherals 	Flatbed Scanner	
Industrial	Multi-Function Printer	
	Document Scanner	
	PoE Security Camera	

Part Electrical Specifications

Product	Compliance	Status	Min	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	l _o Max (A)	l _o Peak Max (A)	Step Reso lution	Contr ol Type	Curre nt Sens e	Regu lator Outp ut	Dete	Flyba ck Prote ction		Pack age Type
LV8735V-TLM-H	Pb-free Halide free	Active	9	32	9	32	1	1.5	1/16	Clock	Exter nal Resis tor		UVL O		1.25	SSO P- 44K EP

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

Created on: 6/11/2016