Product Overview

LV8711T: Stepper Motor Driver, PWM, Constant Current Control

For complete documentation, see the data sheet

Product Description

The LV8711T is a PWM constant-current control stepper motor driver which is low consumption, low heat and high efficiency. The device is suited to 2-cell battery applications. Its supply voltage range is from 4 V to 16 V, and stand-by mode current drain is almost zero. It can contribute to reduce costs and PCB size because of the built-in circuit to control current. It also can contribute to safe design of applications by several built-in protection functions.

Features

- Short circuit protection circuit incorporated
- Abnormal condition warning output pin incorporated
- Upper and lower regenerative diodes
- Thermal shutdown circuit incorporated
- Two circuits of PWM constant-current control H-bridge drivers incorporated
- Control of the stepping motor to 1-2 phase excitations possible
- Reference voltage output : 1.0V

Benefits

- Short protection
- Safety Design
- Safety Design
- Thermal protection

Applications

- Stepper/Bruch DC Motors
- Computing & Peripherals
- Industrial
- Consumer

End Products

- Printers
- Flatbed Scanner
- Document Scanner
- PoE Point of Sales Terminal
- POS terminals

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	$R_{DS(on)}$ Typ (Ω)	Package Type
LV8711T-MPB-H	Pb-free Halide free	Active	Stepper/ Brush DC	4	16	2.7	5.5	0.8	1	½ 1	Parallel		External Resistor		Over-Current Thermal UVLO		1.1	TSSOP-24
LV8711T-TLM-H	Pb-free Halide free	Active	Stepper/ Brush DC	4	16	2.7	5.5	0.8	1	1 ½	Parallel		External Resistor		Over-Current Thermal UVLO		1.1	TSSOP-24

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