



## Product Overview

### LV8414CS: Quad H-Bridge Micro Step Motor Driver with I<sup>2</sup>C Interface

For complete documentation, see the data sheet

#### Product Description

The LV8414CS is a motor driver that is available for the PWM constant-current control micro step drive of dual stepper motor. Miniaturization using the wafer level package (WLP) makes the IC ideally suited for driving the stepping motors used to control the lenses in digital still cameras, cell phone camera modules and other such devices.

#### Features

- Serial data control using I<sup>2</sup>C interface
- Built-in thermal protection circuit
- Low supply voltage protection circuit included
- Built-in 256-division micro step drive circuit for dual stepper motor
- Excitation step proceeds only by step signal input
- Peak excitation current switchable to one of 16 levels
- On-chip photo-sensor drive transistor
- On-chip Schmitt buffer

#### Benefits

- Easy control
- Thermal protection
- Low supply voltage protection

#### Applications

- Cell phone camera modules
- Lens control in digital cameras
- Portable & Wireless

#### End Products

- Digital Still Camera
- Feature Phone
- Smartphone
- Tablet

#### Part Electrical Specifications

Product	Compliance	Status	Type	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Step Resolution	Control Type	Feedback Method	Current Sense	Regulator Output	Fault Detection	Flyback Protection	R <sub>DS(on)</sub> Typ (Ω)	Package Type
LV8414CS-N-TE-L-H	Pb-free Halide free	Active	Stepper	2.5	6	2.5	6	0.4	0.6	1 1/2 1/2 56	I2C	None	External Resistor	No	Thermal UV LO	Integrated Active		WLC SP-32 / WLP-32J

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