

Product Overview

LV8498CT: Motor Driver, Constant Current, Control Voice Coil

For complete documentation, see the data sheet.

The LV8498CT is a constant current driver IC for voice coil motors that supports I2C control integrating a digital/analog converter (DAC). It uses an ultraminiature WLP package and includes a current detection resistor for constant current control, which makes the IC ideal for miniaturization of camera modules intended for use in camera-equipped mobile phones. The output transistor has a low on-resistance of 1 Ω and the resistance of the built-in current detection resistor is 1 Ω , which minimizes the voltage loss and helps withstand voltage drop in VCC. The function is incorporated, which, by changing the current in a stepped pattern while taking time at rise and fall of the output current, provides the current a slope, improving the converging stability of the voice coil motor (current slope function).

Features

- I2C bus control supported.
- Wide operating voltage range (2.2 to 5.0V).
- Built-in current detection resistor.
- 6-pin WLP package used (1.27 0.87 0.25mm).
- Built-in voltage drop protection circuit (VCC = 2V output off).
- Built-in thermal protection circuit.
- Constant current control enabled by 10bit DAC
- Less External Component
- Stand-by current: 0A
- Constant current driver for voice coil motors.

For more features, see the data sheet

Benefits

- Easy control
- Wide power supply application
- Current limit protection
- Small mounting space
- Voltage drop protection
- Thermal protection
- Improving the converging stability of the AF-VCM
- Simple Design
- Low consumption

Applications

- Portable & Wireless

End Products

- Feature Phone
- Smartphone
- Tablet
- Camera for mobile phone
- Pocket movie Camera

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Number of Drivers	V _{CC} Max (V)	V _{(BR)DSS} Max (V)	V _{(BR)DSS} Max (V)	I _D Max (A)	r _{DS(on)} Max (Ω)	T _J Max ($^{\circ}$ C)	Package Type
LV8498CT-TE-L-H	0.388	Pb-free Halide free non AEC-Q and PPAP	Active	1	5.5		VCC+0.5	0.2	2		WLCSP-6 / WLP-6K

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