



Product Overview

LC898215XA: Auto Focus (AF) Controller

For complete documentation, see the data sheet

Product Description

The LC898215 is an Auto Focus (AF) control LSI for cellphone/smartphone camera modules. It controls pre-loaded type actuators. The LSI is composed of a fast settling time circuit and a driver circuit to enable the control. The fast settling time circuit features the high speed movement completion of the actuator. Pre-loaded type actuators have unintentional oscillation by resonance frequency due to their structures while moving with step signal type current change, and it may interfere with the accurate focus control. This LSI's fast settling time circuit permits optimum control of the current change. It enables high speed movement completion of the actuator so that the circuit will be an effective function for configuring high speed focus control systems.

Features

- Fast Settling Time Circuit
- I²C Interface (1.8V)
- 100mA 10bit PWM output
- Low power consumption by highly effective drive
- Various PWM carrier frequency is selectable
- Use driver as half-bridge or H-bridge
- Supply voltage (2.6V to 3.6V)
- H-Bridge 1ch (100mA)
- Built in 40MHz OSC
- Package : WLP6 (1.29 x 0.80 x 0.33 mm)

Benefits

- Easy control: set target position to move
- Low power consumption
- Noise reduction is possible by changing PWM carrier frequency
- Speedup of AF is possible by Fast Settling time
- Small Package

Applications

- Portable Camera Modules

End Products

- Smartphones
- Tablets

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
LC898215XA-MH	Pb-free Halide free	Active	OIS/AF	2.6	3.6	2.6	3.6	0.1	0.13		I2C			No				WLCSP-6

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