DW9718P

High Efficiency Driver IC for VCM

Description

The DW9718P is designed for linear control of voice coil motors. The DW9718P is a single 10-bit DAC with 120mA output current sinking capability. As well as in lineal mode the part can operate in switched mode, increasing the power efficiency of a typical voice coil autofocus system. This device features Smart Actuator Control (SAC™) mode which can minimize the mechanical vibration and achieve very fast mechanical settling time. The SAC™ is protected by patent and registered trademark of DONGWOON ANATECH.

The DW9718P operates from a single 2.3V to 4.8V supply. The internal DAC is controlled via an I²C serial interface that operates at clock rate up to 1MHz. The DW9718P offers a power down mode with current consumption less than 3uA.

The DW9718P can be used for auto focus applications in mobile cameras, digital still cameras, camcorders, web cameras and action cameras.

Features

- 10-bit resolution current sinking of 120mA
- Smart Actuator Control (SAC™) mode
- Supply voltage range (VDD): 2.3V to 4.8V
- Fast mode plus I²C interface compatible
- 1.2V / 1.8V interface available
- Power On Reset (POR)
- Power Down (PD) mode
- Thermal Shutdown (TSD)
- 0.72mm X 1.12mm X 0.30mm (6-pin WLCSP)

Applications

- Mobile cameras
- Camcorders
- Web cameras

Typical Application Diagram

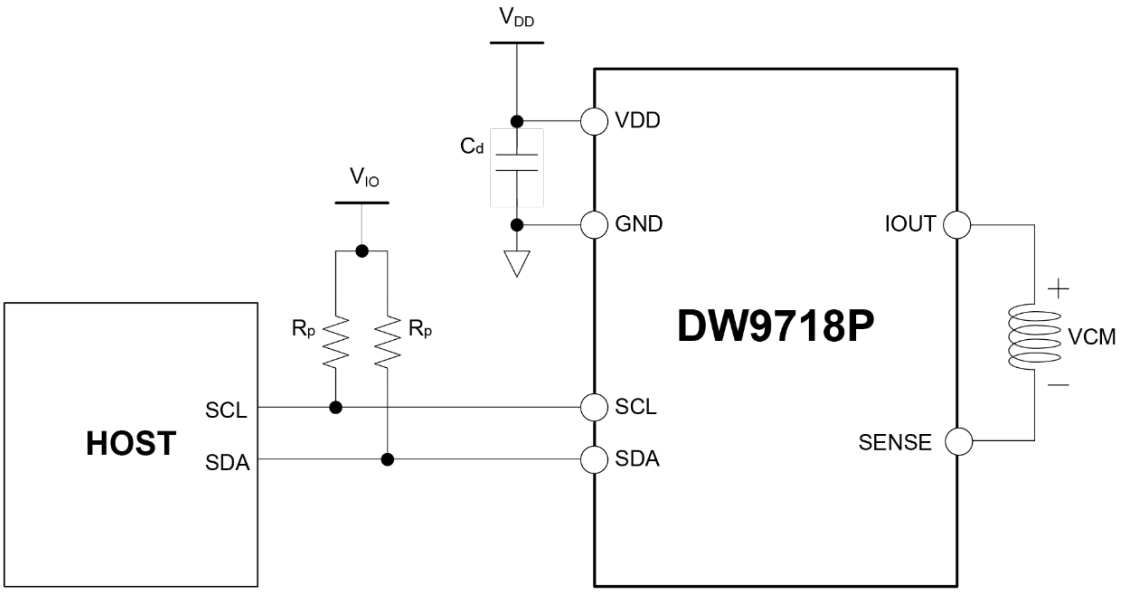

Figure 1. Typical Application Diagram

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