

120mA, Current Sinking, 10-bit I2C DAC for VCM Driver

Features

- 120mA current sink.
- 2-wire (I2C-compatible) serial interface
- 10-bit resolution
- Integrated current sense resistor
- 2.3V to 5.0V power supply
- Power-down mode
- Power-down to 0.5μA typical
- Power-on reset
- TDFN2X2-6 and WLCSP2X3-6 package

Applications

- Auto-focus of camera modules
- Shutters
- Lens covers
- Image stabilization

General Description

The G2003 is a single 10-bit DAC with 120mA output current sink capability. It operates from 2.3V to 5.0V supply. The DAC is controlled via 2-wire (I2C-compatible) serial interface that operates at clock rates up to 400kHz.

The G2003 provides a power-down mode. The power-down mode can be enabled by PD pin or I2C interface. At power-down mode, the output current reduces to 1μA maximum.

The G2003 is designed for autofocus, image stabilization, and optical zoom applications in camera modules.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G2003RB1U	2003	0°C to +85°C	TDFN2X2-6
G2003BF1U	203	0°C to +85°C	WLCSP2X3-6

Note: RB: TDFN2X2-6 BF:WLCSP2X3-6

1: Bonding Code

U: Tape & Reel

Pin Configuration

