

## 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 0.5 $\mu$ A 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 1 $\mu$ A 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

