

# 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 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.

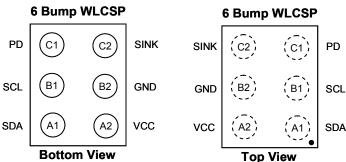
#### **Ordering Information**

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

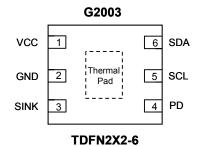
Note: RB: TDFN2X2-6 BF:WLCSP2X3-6

> 1: Bonding Code U: Tape & Reel

## **Pin Configuration**







Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.