



For Data Sheets & Samples Contact:

Rick Kapoor

201-828-9808 x 219

rick.kapoor@arcotek.net

Giantec GT9763 100mA, 10-Bit, I²C DAC IC Available from ARCO

Features

- 100mA current output
- Available in 3×2 array WLCSP package
- 2-wire (I2C-compatible) 1.8 V serial interface
- 10-bit resolution
- Integrated current sense resistor
- Linear or PWM Mode VCM Current Generation
- Guaranteed monotonic over all codes
- Pwr-down z to 0.5μA typ. / Pwr-on Reset
- Internal reference
- Ultralow noise preamplifier
- Advanced Actuator Control Technology
- 2.5 V to 4.8 V Pwr supply with Protection

General Description

The GT9763 is a single 10-bit digital-to-analog converter with 100mA output current capability. VCM current is controlled with a fixed frequency PWM controller or a linear mode driver. Current generation can be selected via I2C register. The DAC is controlled via a 2-wire (I2C-compatible) serial interface that operates at clock rates up to 400kHz. It features an internal reference and operates from a single 2.5V to 4.8V supply. GT9763 integrated Advanced Actuator Control (AAC) technology. AAC is a fast autofocus and image quality enhancing technology developed by Giantec Semiconductor, and integrated into VCM driver GT9763.

The GT9763 incorporates a power-on reset circuit that ensures that the DAC output powers up to 0V and remains there until a valid write takes place. It has a power-down feature that reduces the current consumption of the device to 1μA maximum. The GT9763 is designed for autofocus, image stabilization, and optical zoom applications in camera phones, digital still cameras, and camcorders.

The GT9763 also has many industrial applications, such as controlling temperature, light, and movement, over the range of -35°C to +85°C without derating.

Applications

CONSUMER APPLICATIONS

- Lens autofocus
- Image stabilization
- Optical zoom
- Shutters
- Iris/exposure
- Neutral density (ND) filters
- Lens covers
- Camera phones
- Digital still cameras
- Camera modules
- Digital video cameras/camcorders

- Camera-enabled devices
- Security cameras
- Web/PC cameras

INDUSTRIAL APPLICATIONS

- Heater controls
- Fan controls
- Cooler (Peltier) controls
- Solenoid controls
- Valve controls
- Linear actuator controls
- Light controls
- Current loop controls

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ARCO INC.

180 Summit Avenue ■ Montvale, NJ 07645 ■ USA
T: 201.828.9808 ■ F: 201.828.5955 ■ www.arcotek.net