Shanghai Fudan Microelectronics Group Company Limited



FM24VS64/FM24VS64R 10bit Resolution VCM Driver with 64Kbits EEPROM

Brief

Aug. 2018

Note: For detail of product please contact local sales office.

上海复旦微电子集团股份有限公司 Shanghai Fudan Microelectronics Group Company Limited

General Description

The FM24VS64/FM24VS64R is a single 10-bit DAC with 120mA output current sink capability and has a 64Kbits EEPROM memory. DAC and EEPROM are controlled via two-wire serial interface by clock rate up to 1MHz. The device features special dynamic control mode which can minimize mechanical settling time.

The FM24VS64/FM24VS64R is designed for auto focus applications such as mobile phone cameras, digital cameras and web cameras.

Features

- VCM driver for auto focus
- 10-bit DAC with 120mA output current sink capability
- Special dynamic control mode
- Embedded EEPROM
 - 64Kbits Data memory
 - Lockable 32-Byte Security Sector
 - > 128-Bit Unique ID for each device
 - 32-Byte Page Write Modes (Partial Page Writes are Allowed)
 - Software write protection
 - > Self-timed Write Cycle (5ms max)
 - > Endurance: 1,000,000 Write Cycles
 - Data Retention: 40 Years
- Supply voltage (V_{DD}): 2.3V to 3.6V
- IO voltage (V_{IN}): 1.8V to V_{DD}
- Fast mode (400KHz) and Fast mode plus (1MHz) two-wire serial interface
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- Configurable device address for DAC and EEPROM
- Power on reset (POR)
- Thermal shutdown (TSD)
- Shut down and power down mode standby current <1uA
- Package: Thin 6-ball WLCSP

Applications

- Mobile phone camera
- Digital camera
- Web camera
- Lens auto camera

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Packaging Type

FM24VS64 Thin 6-ball WLCSP

IOUT

GND

VDD

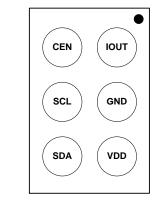
CEN

SDA

SCL



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Bottom View

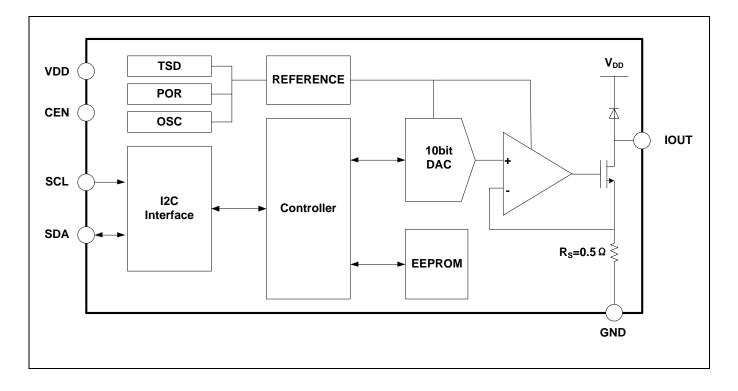
Bottom View

Pin Configuration

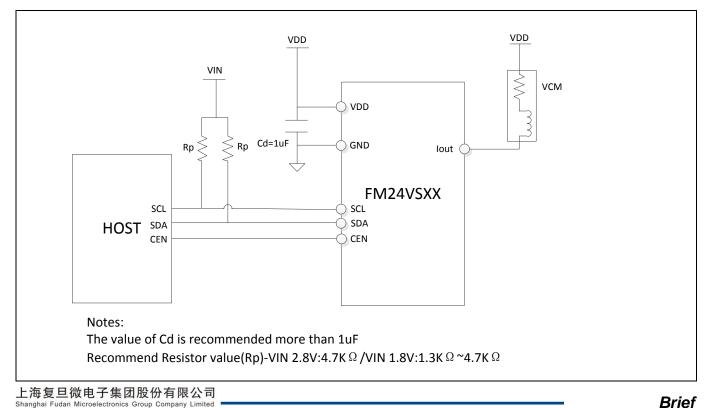
Pin Name	I/O	Description
IOUT	0	Output current sink
GND	Р	Ground
VDD	Р	Power
SCL	I	serial clock
SDA	IO	serial data
CEN	1	Chip enable (active high)



Block Diagram



Typical Application





Sales and Service

Shanghai Fudan Microelectronics Group Co., Ltd.

Address: Bldg No. 4, 127 Guotai Rd, Shanghai City China. Postcode: 200433 Tel: (86-021) 6565 5050 Fax: (86-021) 6565 9115

Shanghai Fudan Microelectronics (HK) Co., Ltd.

Address: Unit 506, 5/F., East Ocean Centre, 98 Granville Road, Tsimshatsui East, Kowloon, Hong Kong

Tel: (852) 2116 3288 2116 3338 Fax: (852) 2116 0882

Beijing Office

Address: Room 423, Bldg B, Gehua Building, 1 QingLong Hutong, Dongzhimen Alley north Street, Dongcheng District, Beijing City, China. Postcode: 100007 Tel: (86-010) 8418 6608 Fax: (86-010) 8418 6211

Shenzhen Office

Address: Room.1301, Century Bldg, No. 4002, Shengtingyuan Hotel, Huaqiang Rd (North), Shenzhen City, China. Postcode: 518028 Tel: (86-0755) 8335 0911 8335 1011 8335 2011 8335 0611 Fax: (86-0755) 8335 9011

Shanghai Fudan Microelectronics (HK) Ltd Taiwan Representative Office

Address: Unit 1225, 12F., No 252, Sec.1 Neihu Rd., Neihu Dist., Taipei City 114, Taiwan Tel : (886-2) 7721 1889 (886-2) 7721 1890 Fax: (886-2) 7722 3888

Shanghai Fudan Microelectronics (HK) Ltd Singapore Branch Office

Address: 47 Kallang Pudding Road, #08-06 The Crescent @ Kallang, Singapore 349318 Tel: +65 64430860 Fax: +65 64431215 Email: kttan@fmsh.com

Fudan Microelectronics (USA) Inc.

Address: 97 E Brokaw Road, Suite 320,San Jose,CA 95112 Tel: (+1)408-335-6936 Contact name: Xinyue Huang Email: fmus@fmsh.com

Web Site: http://www.fmsh.com/

上海复旦微电子集团股份有限公司