

General Description

The MAX5842 is a quad, 12-bit voltage-output, digitalto-analog converter (DAC) with an I2C™-compatible, 2-wire interface that operates at clock rates up to 400kHz. The device operates from a single 2.7V to 5.5V supply and draws only 230µA at VDD = 3.6V. A powerdown mode decreases current consumption to less than 1µA. The MAX5842 features three software-selectable power-down output impedances: $100k\Omega$, $1k\Omega$, and high impedance. Other features include internal precision Rail-to-Rail® output buffers and a power-on reset (POR) circuit that powers up the DAC in the $100k\Omega$ power-down mode.

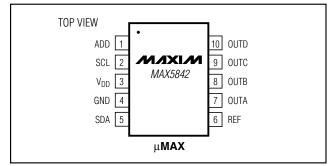
The MAX5842 features a double-buffered I²C-compatible serial interface that allows multiple devices to share a single bus. All logic inputs are CMOS-logic compatible and buffered with Schmitt triggers, allowing direct interfacing to optocoupled and transformer-isolated interfaces. The MAX5842 minimizes digital noise feedthrough by disconnecting the clock (SCL) signal from the rest of the device when an address mismatch is detected.

The MAX5842 is specified over the extended temperature range of -40°C to +85°C and is available in a miniature 10-pin µMAX package. Refer to the MAX5841 data sheet for the 10-bit version.

Applications

Digital Gain and Offset Adjustments Programmable Voltage and Current Sources Programmable Attenuation VCO/Varactor Diode Control Low-Cost Instrumentation Battery-Powered Equipment ATE

Pin Configuration



Rail-to-Rail is a registered trademark of Nippon Motorola, Ltd. I^2C is a trademark of Philips Corp.

Features

- ♦ Ultra-Low Supply Current $230\mu A$ at $V_{DD} = 3.6V$ $280\mu A$ at $V_{DD} = 5.5V$
- ♦ 300nA Low-Power Power-Down Mode
- ♦ Single 2.7V to 5.5V Supply Voltage
- ♦ Fast 400kHz I²C-Compatible 2-Wire Serial Interface
- ♦ Schmitt-Trigger Inputs for Direct Interfacing to **Optocouplers**
- ♦ Rail-to-Rail Output Buffer Amplifiers
- ♦ Three Software-Selectable Power-Down Output **Impedances**

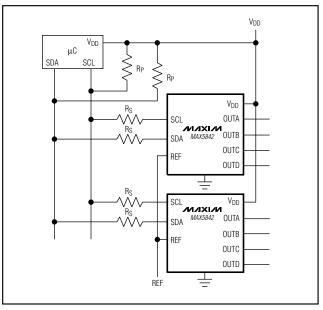
100k Ω , 1k Ω , and High Impedance

- ♦ Read-Back Mode for Bus and Data Checking
- ♦ Power-On Reset to Zero
- ♦ 10-Pin µMAX Package

Ordering Information

PART	TEMP RANGE	PIN- PACKAGE	ADDRESS
MAX5842LEUB	-40°C to +85°C	10 μMAX	0111 10X
MAX5842MEUB	-40°C to +85°C	10 μMAX	1011 10X

Typical Operating Circuit



MIXIM

Maxim Integrated Products 1

ABSOLUTE MAXIMUM RATINGS

V _{DD} , SCL, SDA to GNDOUT . REF. ADD to GND		Operating Temperature RangeStorage Temperature Range	
Maximum Current into Any Pin		Maximum Junction Temperature	
Continuous Power Dissipation ($T_A = +70^{\circ}C$)		Lead Temperature (soldering, 10s)	+300°C
10-Pin uMAX (derate 5.6mW above +70°C)	444mW		

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

 $(V_{DD} = +2.7V \text{ to } +5.5V, \text{ GND} = 0, V_{REF} = V_{DD}, R_L = 5k\Omega, C_L = 200pF, T_A = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.}$ Typical values are at $V_{DD} = +5V, T_A = +25^{\circ}\text{C.}$) (Note 1)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS	
STATIC ACCURACY (NOTE 2)	'		•			•	
Resolution	N		12			Bits	
Integral Nonlinearity	tegral Nonlinearity INL (Note 3)					LSB	
Differential Nonlinearity	DNL	Guaranteed monotonic (Note 3)			±1	LSB	
Zero-Code Error	ZCE	Code = 000 hex, V _{DD} = 2.7V		6	40	mV	
Zero-Code Error Tempco				2.3		ppm/°C	
Gain Error	GE	Code = FFF hex		-0.8	-3	%FSR	
Gain-Error Tempco				0.26		ppm/°C	
Power-Supply Rejection Ratio	PSRR	Code = FFF hex, $V_{DD} = 4.5V$ to 5.5V		58.8		dB	
DC Crosstalk				30		μV	
REFERENCE INPUT							
Reference Input Voltage Range	V _{REF}		0		V_{DD}	V	
Reference Input Impedance			32	45		kΩ	
Reference Current		Power-down mode		±0.3	±1	μΑ	
DAC OUTPUT							
Output Voltage Range		No load (Note 4)	0		V_{DD}	V	
DC Output Impedance		Code = 800 hex		1.2		Ω	
Short-Circuit Current		V _{DD} = 5V, V _{OUT} = full scale (short to GND)		42.2			
Short-Circuit Current		V _{DD} = 3V, V _{OUT} = full scale (short to GND)		15.1		mA	
Make He Time		$V_{DD} = 5V$		8			
Wake-Up Time		$V_{DD} = 3V$		8		μs	
DAC Output Leakage Current		Power-down mode = high impedance, VDD = 5.5V, VOUT_ = VDD or GND		±0.1	±1	μΑ	
DIGITAL INPUTS (SCL, SDA)	1		•			•	
Input High Voltage	VIH		0.7 × V _{DD}			V	
Input Low Voltage	VIL				0.3 × V _{DD}	V	

ELECTRICAL CHARACTERISTICS (continued)

 $(V_{DD}=+2.7V\ to\ +5.5V,\ GND=0,\ V_{REF}=V_{DD},\ R_L=5k\Omega,\ C_L=200pF,\ T_A=T_{MIN}\ to\ T_{MAX},\ unless\ otherwise\ noted.$ Typical values are at $V_{DD}=+5V,\ T_A=+25^{\circ}C.)$ (Note 1)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Input Hysteresis			0.05 ×			V
input riysteresis			V_{DD}			v
Input Leakage Current		Digital inputs = 0 or V _{DD}		±0.1	±1	μΑ
Input Capacitance				6		рF
DIGITAL OUTPUT (SDA)						
Output Logic Low Voltage	V _{OL}	I _{SINK} = 3mA			0.4	V
Three-State Leakage Current	ΙL	Digital inputs = 0 or V _{DD}		±0.1	±1	μΑ
Three-State Output Capacitance				6		рF
DYNAMIC PERFORMANCE						
Voltage Output Slew Rate	SR			0.5		V/µs
Voltage Output Settling Time		To 1/2LSB code 400 hex to C00 hex or C00 hex to 400 hex (Note 5)		4	12	μs
Digital Feedthrough		Code = 000 hex, digital inputs from 0 to V _{DD}		0.2		nV-s
Digital-to-Analog Glitch Impulse		Major carry transition (code = 7FF hex to 800 hex and 800 hex to 7FF hex)		12		nV-s
DAC-to-DAC Crosstalk				2.4		nV-s
POWER SUPPLIES						
Supply Voltage Range	V_{DD}		2.7		5.5	V
Curanti Curanti vitta Na Land	lon.	All digital inputs at 0 or V _{DD} = 3.6V		230	395	
Supply Current with No Load	IDD	All digital inputs at 0 or V _{DD} = 5.5V		280	420	μA
Power-Down Supply Current	IDDPD	All digital inputs at 0 or V _{DD} = 5.5V		0.3	1	μΑ
TIMING CHARACTERISTICS (FIGI	JRE 1)					
Serial Clock Frequency	fscl		0		400	kHz
Bus Free Time Between STOP and START Conditions	t _{BUF}		1.3			μs
START Condition Hold Time	thd,sta		0.6			μs
SCL Pulse Width Low	tLOW		1.3			μs
SCL Pulse Width High	thigh		0.6			μs
Repeated START Setup Time	tsu,sta		0.6			μs
Data Hold Time	thd,dat		0		0.9	μs
Data Setup Time	tsu,dat		100			ns
SDA and SCL Receiving Rise Time	t _r	(Note 5)	0		300	ns
SDA and SCL Receiving Fall Time	t _f	(Note 5)	0		300	ns
SDA Transmitting Fall Time	tf	(Note 5)	20 + 0.1C _b		250	ns
STOP Condition Setup Time	tsu,sto		0.6			μs
	1	1	1			1



ELECTRICAL CHARACTERISTICS (continued)

 $(V_{DD} = +2.7V \text{ to } +5.5V, \text{ GND} = 0, V_{REF} = V_{DD}, R_L = 5k\Omega, C_L = 200pF, T_A = T_{MIN} \text{ to } T_{MAX}, \text{ unless otherwise noted.}$ Typical values are at $V_{DD} = +5V, T_A = +25^{\circ}\text{C.}$) (Note 1)

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
Bus Capacitance	Cb	(Note 5)			400	рF
Maximum Duration of Suppressed Pulse Widths	tsp		0		50	ns

Note 1: All devices are 100% production tested at $T_A = +25^{\circ}C$ and are guaranteed by design for $T_A = T_{MIN}$ to T_{MAX} .

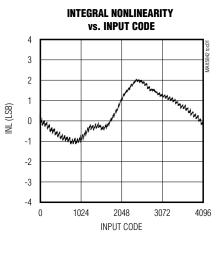
Note 2: Static specifications are tested with the output unloaded.

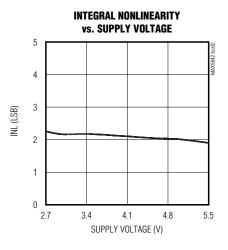
Note 3: Linearity is guaranteed from codes 115 to 3981.

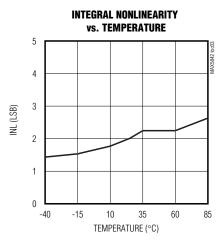
Note 4: Offset and gain error limit the FSR.

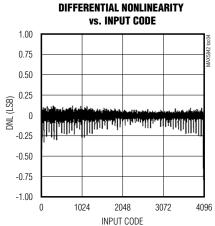
Note 5: Guaranteed by design. Not production tested.

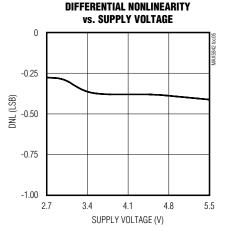
Typical Operating Characteristics

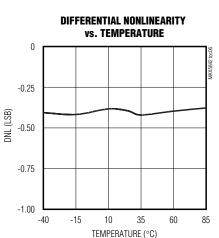




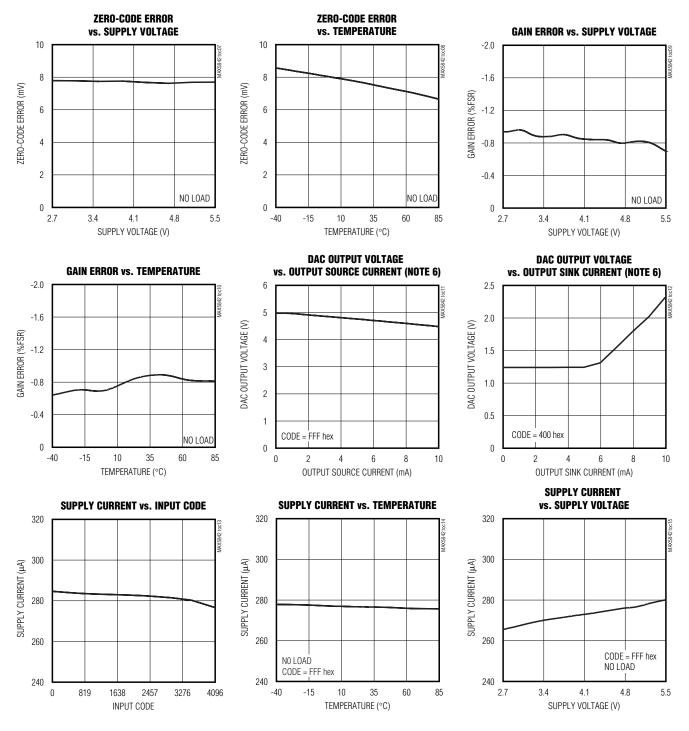




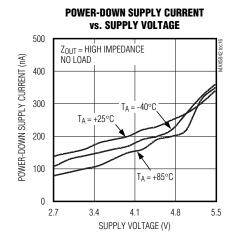


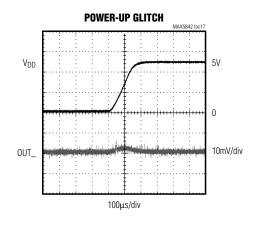


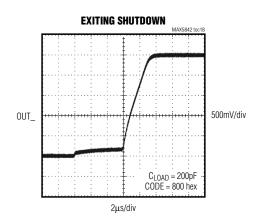
Typical Operating Characteristics (continued)

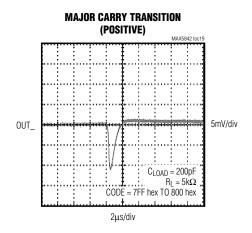


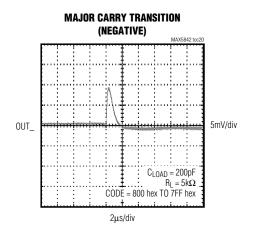
Typical Operating Characteristics (continued)

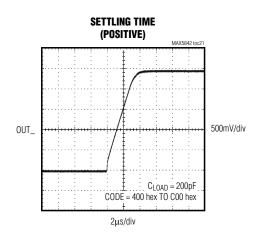




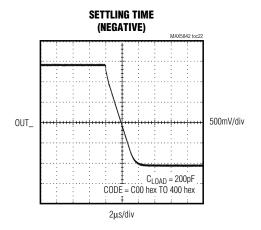


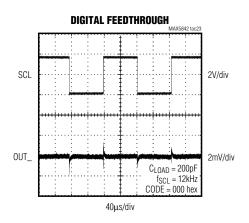


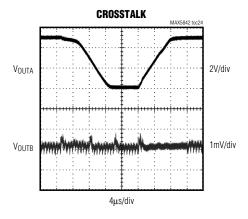




Typical Operating Characteristics (continued)







Note 6: The ability to drive loads less than $5k\Omega$ is not implied.

Pin Description

PIN	NAME	FUNCTION
1	ADD	Address Select. A logic high sets the address LSB to 1; a logic low sets the address LSB to zero.
2	SCL	Serial Clock Input
3	V _{DD}	Power Supply
4	GND	Ground
5	SDA	Bidirectional Serial Data Interface
6	REF	Reference Input
7	OUTA	DAC A Output
8	OUTB	DAC B Output
9	OUTC	DAC C Output
10	OUTD	DAC D Output

Detailed Description

The MAX5842 is a quad, 12-bit, voltage-output DAC with an I²C/SMBus-compatible 2-wire interface. The device consists of a serial interface, power-down circuitry, four input and DAC registers, four 12-bit resistor string DACs, four unity-gain output buffers, and output resistor networks. The serial interface decodes the address and control bits, routing the data to the proper input or DAC register. Data can be directly written to the DAC register, immediately updating the device output, or can be written to the input register without changing the DAC output. Both registers retain data as long as the device is powered.

DAC Operation

The MAX5842 uses a segmented resistor string DAC architecture, which saves power in the overall system and guarantees output monotonicity. The MAX5842's input coding is straight binary, with the output voltage given by the following equation:

$$V_{OUT} = \frac{V_{REF} \times (D)}{2^N}$$

where N = 12 (bits), and D = the decimal value of the input code (0 to 4095).

Output Buffer

The MAX5842 analog outputs are buffered by precision, unity-gain followers that slew 0.5V/µs. Each buffer output swings rail-to-rail, and is capable of driving 5k Ω in parallel with 200pF. The output settles to ±0.5LSB within 4µs.

Power-On Reset

The MAX5842 features an internal POR circuit that initializes the device upon power-up. The DAC registers

are set to zero scale and the device is powered down, with the output buffers disabled and the outputs pulled to GND through the 100k Ω termination resistor. Following power-up, a wake-up command must be initiated before any conversions are performed.

Power-Down Modes

The MAX5842 has three software-controlled, low-power, power-down modes. All three modes disable the output buffers and disconnect the DAC resistor strings from REF, reducing supply current draw to 1µA and the reference current draw to less than 1µA. In power-down mode 0, the device output is high impedance. In power-down mode 1, the device output is internally pulled to GND by a 1k Ω termination resistor. In power-down mode 2, the device output is internally pulled to GND by a 100k Ω termination resistor. Table 1 shows the power-down mode command words.

Upon wake-up, the DAC output is restored to its previous value. Data is retained in the input and DAC registers during power-down mode.

Digital Interface

The MAX5842 features an I²C/SMBus-compatible 2-wire interface consisting of a serial data line (SDA) and a serial clock line (SCL). The MAX5842 is SMBus compatible within the range of V_{DD} = 2.7V to 3.6V. SDA and SCL facilitate bidirectional communication between the MAX5842 and the master at rates up to 400kHz. Figure 1 shows the 2-wire interface timing diagram. The MAX5842 is a transmit/receive slave-only device, relying upon a master to generate a clock signal. The master (typically a microcontroller) initiates data transfer on the bus and generates SCL to permit that transfer.

A master device communicates to the MAX5842 by transmitting the proper address followed by command and/or data words. Each transmit sequence is framed

Table 1. Power-Down Command Bits

	R-DOWN ND BITS	MODE/FUNCTION			
PD1	PD0				
0	0	Power-up device. DAC output restored to previous value.			
0	1	Power-down mode 0. Power down device with output floating.			
1	Power-down mode 1. Power down to device with output terminated with Ω to GND.				
1	1	Power-down mode 2. Power down device with output terminated with $100k\Omega$ to GND.			

by a START (S) or REPEATED START (S_r) condition and a STOP (P) condition. Each word transmitted over the bus is 8 bits long and is always followed by an acknowledge clock pulse.

The MAX5842 SDA and SCL drivers are open-drain outputs, requiring a pullup resistor to generate a logic high voltage (see *Typical Operating Circuit*). Series resistors Rs are optional. These series resistors protect the input stages of the MAX5842 from high-voltage spikes on the bus lines, and minimize crosstalk and undershoot of the bus signals.

Bit Transfer

One data bit is transferred during each SCL clock cycle. The data on SDA must remain stable during the high period of the SCL clock pulse. Changes in SDA while SCL is high are control signals (see *START and*

STOP Conditions). Both SDA and SCL idle high when the I^2C bus is not busy.

START and STOP Conditions

When the serial interface is inactive, SDA and SCL idle high. A master device initiates communication by issuing a START condition. A START condition is a high-tolow transition on SDA with SCL high. A STOP condition is a low-to-high transition on SDA, while SCL is high (Figure 2). A START condition from the master signals the beginning of a transmission to the MAX5842. The master terminates transmission by issuing a not acknowledge followed by a STOP condition (see Acknowledge Bit (ACK)). The STOP condition frees the bus. If a repeated START condition (Sr) is generated instead of a STOP condition, the bus remains active. When a STOP condition or incorrect address is detected, the MAX5842 internally disconnects SCL from the serial interface until the next START condition, minimizing digital noise and feedthrough.

Early STOP Conditions

The MAX5842 recognizes a STOP condition at any point during transmission except if a STOP condition occurs in the same high pulse as a START condition (Figure 3). This condition is not a legal I²C format; at least one clock pulse must separate any START and STOP conditions.

Repeated START Conditions

A REPEATED START (S_r) condition may indicate a change of data direction on the bus. Such a change occurs when a command word is required to initiate a read operation. S_r may also be used when the bus master is writing to several I²C devices and does not want to relinquish control of the bus. The MAX5842 serial interface supports continuous write operations with or without an S_r condition separating them. Continuous

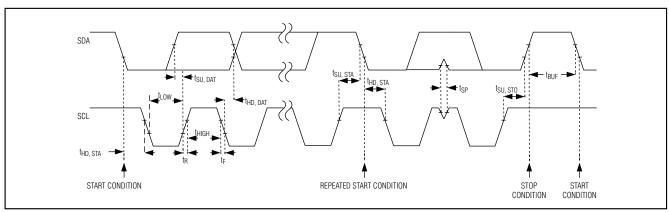


Figure 1. 2-Wire Serial Interface Timing Diagram

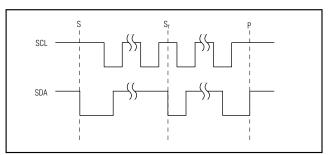


Figure 2. START and STOP Conditions

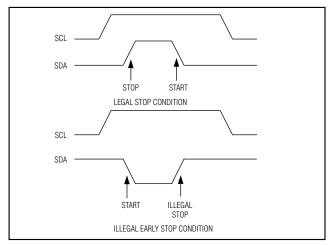


Figure 3. Early STOP Conditions

read operations require S_r conditions because of the change in direction of data flow.

Acknowledge Bit (ACK)

The acknowledge bit (ACK) is the ninth bit attached to any 8-bit data word. ACK is always generated by the receiving device. The MAX5842 generates an ACK when receiving an address or data by pulling SDA low during the ninth clock period. When transmitting data, the MAX5842 waits for the receiving device to generate an ACK. Monitoring ACK allows for detection of unsuccessful data transfers. An unsuccessful data transfer occurs if a receiving device is busy or if a system fault has occurred. In the event of an unsuccessful data transfer, the bus master should reattempt communication at a later time.

Slave Address

A bus master initiates communication with a slave device by issuing a START condition followed by the 7-bit slave address (Figure 4). When idle, the MAX5842 waits for a START condition followed by its slave

address. The serial interface compares each address value bit by bit, allowing the interface to power down immediately if an incorrect address is detected. The LSB of the address word is the Read/Write (R/W) bit. R/W indicates whether the master is writing to or reading from the MAX5842 (R/W = 0 selects the write condition, R/W = 1 selects the read condition). After receiving the proper address, the MAX5842 issues an ACK by pulling SDA low for one clock cycle.

The MAX5842 has four different factory/user-programmed addresses (Table 2). Address bits A6 through A1 are preset, while A0 is controlled by ADD. Connecting ADD to GND sets A0 = 0. Connecting ADD to V_{DD} sets A0 = 1. This feature allows up to four MAX5842s to share the same bus.

Table 2. MAX5842 I²C Slave Addresses

PART	V _{ADD}	DEVICE ADDRESS (A6A0)
MAX5842L	GND	0111 100
MAX5842L	V_{DD}	0111 101
MAX5842M	GND	1011 100
MAX5842M	V_{DD}	1011 101

Write Data Format

In write mode (R/ \overline{W} = 0), data that follows the address byte controls the MAX5842 (Figure 5). Bits C3-C0 configure the MAX5842 (Table 3). Bits D11-D0 are DAC data. Input and DAC registers update on the falling edge of SCL during the acknowledge bit. Should the write cycle be prematurely aborted, data is not updated and the write cycle must be repeated. Figure 6 shows two example write data sequences.

Extended Command Mode

The MAX5842 features an extended command mode that is accessed by setting C3-C0 = 1 and D11-D8 = 0. The next data byte writes to the shutdown registers (Figure 7). Setting bits A, B, C, or D to 1 sets that DAC

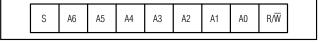


Figure 4. Slave Address Byte Definition

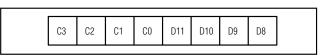


Figure 5. Command Byte Definition

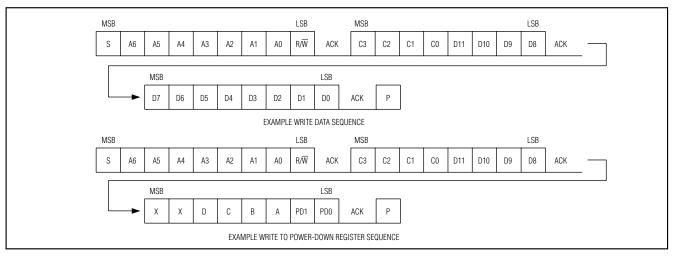


Figure 6. Example Write Command Sequences

to the selected power-down mode based on the states of PD0 and PD1 (Table 1). Any combination of the four DACs can be controlled with a single write sequence.

Read Data Format

In read mode (R/W=1), the MAX5842 writes the contents of the DAC register to the bus. The direction of data flow reverses following the address acknowledge by the MAX5842. The device transmits the first byte of data, waits for the master to acknowledge, then transmits the second byte. Figure 8 shows an example read data sequence.

I²C Compatibility

The MAX5842 is compatible with existing I²C systems. SCL and SDA are high-impedance inputs; SDA has an open drain that pulls the data line low during the ninth clock pulse. The *Typical Operating Circuit* shows a typical I²C application. The communication protocol supports the standard I²C 8-bit communications. The general call address is ignored. The MAX5842 address is compatible with the 7-bit I²C addressing protocol only. No 10-bit address formats are supported.

Digital Feedthrough Suppression

When the MAX5842 detects an address mismatch, the serial interface disconnects the SCL signal from the core circuitry. This minimizes digital feedthrough caused by the SCL signal on a static output. The serial interface reconnects the SCL signal once a valid START condition is detected.

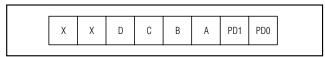


Figure 7. Extended Command Byte Definition

_Applications Information

Digital Inputs and Interface Logic

The MAX5842 2-wire digital interface is I²C/SMBus compatible. The two digital inputs (SCL and SDA) load the digital input serially into the DAC. Schmitt-trigger buffered inputs allow slow-transition interfaces such as optocouplers to interface directly to the device. The digital inputs are compatible with CMOS logic levels.

Power-Supply Bypassing and Ground Management

Careful PC board layout is important for optimal system performance. Keep analog and digital signals separate to reduce noise injection and digital feedthrough. Use a ground plane to ensure that the ground return from GND to the power-supply ground is short and low impedance. Bypass VDD with a 0.1µF capacitor to ground as close to the device as possible.

Chip Information

TRANSISTOR COUNT: 17,213

PROCESS: BICMOS

Table 3. Command Byte Definitions

			SERI	AL DATA	INPUT		FUNCTION	
C3	C2	C1	C0	D11	D10	D9	D8	FUNCTION
0	0	0	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC A input and DAC registers with new data. Contents of DAC B, C, and D input registers are transferred to the respective DAC registers. All outputs are updated.
0	0	0	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC B input and DAC registers with new data. Contents of DAC A, C, and D input registers are transferred to the respective DAC registers. All outputs are updated.
0	0	1	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC C input and DAC registers with new data. Contents of DAC A, B, and D input registers are transferred to the respective DAC registers. All outputs are updated.
0	0	1	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC D input and DAC registers with new data. Contents of DAC A, B, and C input registers are transferred to the respective DAC registers. All outputs are updated simultaneously.
0	1	0	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC A input register with new data. DAC outputs remain unchanged.
0	1	0	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC B input register with new data. DAC outputs remain unchanged.
0	1	1	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC C input register with new data. DAC outputs remain unchanged.
0	1	1	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load DAC D input register with new data. DAC outputs remain unchanged.
1	0	0	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Data in all input registers is transferred to respective DAC registers. All DAC outputs are updated simultaneously. New data is loaded into DAC A input register.
1	0	0	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Data in all input registers is transferred to respective DAC registers. All DAC outputs are updated simultaneously. New data is loaded into DAC B input register.
1	0	1	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Data in all input registers is transferred to respective DAC registers. All DAC outputs are updated simultaneously. New data is loaded into DAC C input register.
1	0	1	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Data in all input registers is transferred to respective DAC registers. All DAC outputs are updated simultaneously. New data is loaded into DAC D input register.
1	1	0	0	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load all DACs with new data and update all DAC outputs simultaneously. Both input and DAC registers are updated with new data.
1	1	0	1	DAC DATA	DAC DATA	DAC DATA	DAC DATA	Load all input registers with new data. DAC outputs remain unchanged.

Table 3. Command Byte Definitions (continued)

SERIAL DATA INPUT							FUNCTION	
C3	C2	C1	C0	D11	D10	D9	D8	FONCTION
1	1	1	0	X	X	X	X	Update all DAC outputs simultaneously. Device ignores D11-D8. Do not send the data byte.
1	1	1	1	0	0	0	0	Extended command mode. The next word writes to the power-down registers (Extended Command Mode).
1	1	1	1	0	0	0	1	Read DAC A data. The device expects an S_r condition followed by an address word with $R\overline{W}=1$.
1	1	1	1	0	0	1	0	Read DAC B data. The device expects an S_r condition followed by an address word with $R\overline{W}=1$.
1	1	1	1	0	1	0	0	Read DAC C data. The device expects an S_r condition followed by an address word with $R\overline{W}=1$.
1	1	1	1	1	0	0	0	Read DAC D data. The device expects an S_r condition followed by an address word with $R/\overline{W}=1$.

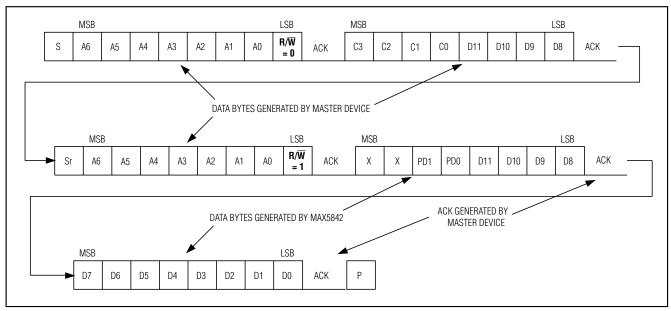
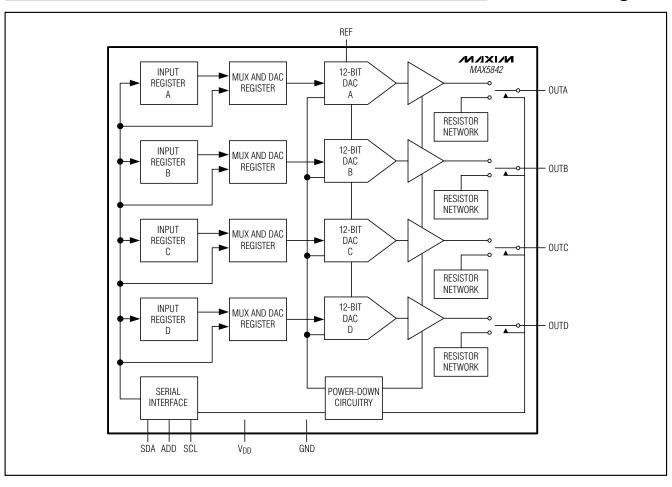
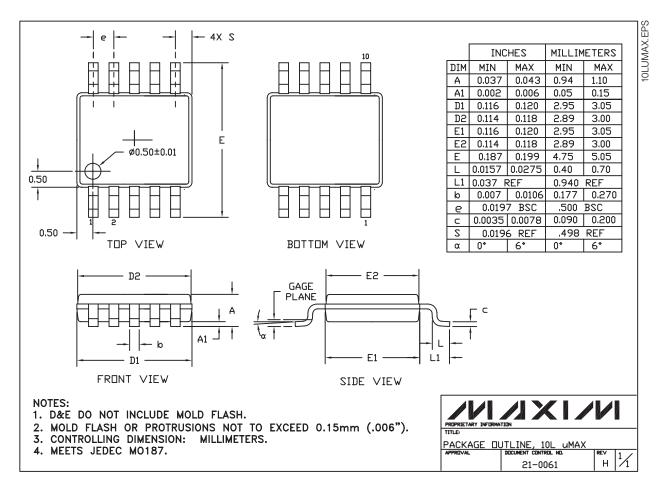


Figure 8. Example Read Word Data Sequence

Functional Diagram



Package Information



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