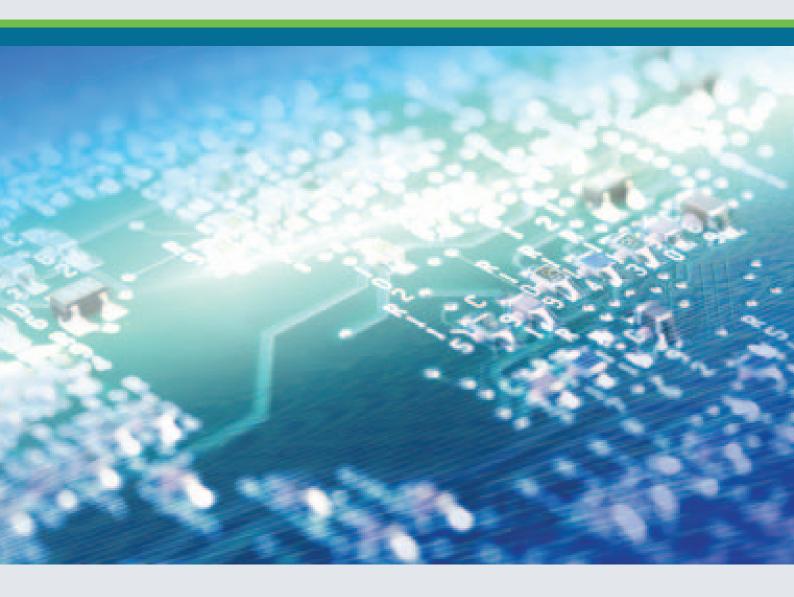


K24C02 / K24C04 / K24C08 / K24C16



Summer 2014

2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)



- ►Wide Voltage Operation
 - Vcc = 1.7V to 5.5V
- ► Operating Ambient Temperature: -40°C to +85°C
- Internally Organized:
 - K24C02, 256 X 8 (2K bits)
 - K24C04, 512 X 8 (4K bits)
 - K24C08, 1024 X 8 (8K bits)
 - K24C16, 2048 X 8 (16K bits)
- ►Two-wire Serial Interface
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- ► Bidirectional Data Transfer Protocol

- ▶1 MHz (5V, 3V), 400 KHz (1.7V) Compatibility
- ► Write Protect Pin for Hardware Data Protection
- ▶8-byte Page (2K), 16-byte Page (4K, 8K, 16K) Write Modes
- ► Partial Page Writes Allowed
- ► Self-timed Write Cycle (5 ms max)
- High-reliability
 - Endurance: 1 Million Write Cycles
 - Data Retention: 100 Years
- ►8-lead PDIP/SOP/MSOP/TSSOP, 8-pad DFN, and SOT23-5 packages

General Description

The K24C02/K24C04/K24C08/K24C16 provides 2048/4096/8192/16384 bits of serial electrically erasable and programmable read-only memory (EEPROM) organized as 256/512/1024/2048 words of 8 bits each. The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operation are essential. The K24C02/K24C04/K24C08/K24C16 is available in space-saving 8-lead PDIP, 8-lead SOP, 8-lead MSOP, 8-lead TSSOP, 8-pad DFN, and SOT23-5 packages and is accessed via a two-wire serial interface.

Pin Configuration

► Table 1: Pin Configuration

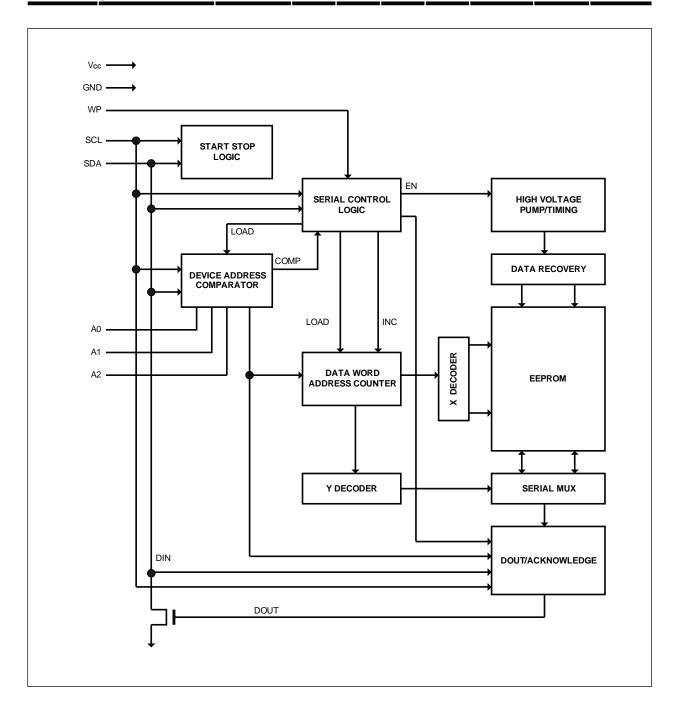
Pin Name	Founctions		S0T23-5
A0 - A2	Address Inputs	8-pad DFN	30123-3
SDA	Serial Data		
SCL	Serial Clock Input	Vcc 8 1 A0	SCL 1 5 WP
WP	Write Protect	WP 7 2 A1 SCL 6 3 A2	GND 2
GND	Ground	SDA 5 4 GND	SDA 3 4 Vcc
Vcc	Power Supply		
		Bottom view	
8-lead PDIP	8-lead SOP	Bottom view 8-lead TSSOP	8-lead MSOP

V1 8

K24C02/K24C04/K24C08/K24C16

Two-wire Serial EEPROM 2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

Block Diagram



2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)



Pin Descriptions

DEVICE/PAGE ADDRESSES (A2, A1 and A0): The A2, A1 and A0 pins are device address inputs that are hard wired for the K24C02. Eight 2K devices may be addressed on a single bus system (device addressing is discussed in detail under the Device Addressing section).

The K24C04 uses the A2 and A1 inputs for hard wire addressing and a total of four 4K devices may be addressed on a single bus system. The A0 pin is a no connect and can be connected to ground.

The K24C08 only uses the A2 input for hardwire addressing and a total of two 8K devices may be addressed on a single bus system. The A0 and A1 pins are no connects and can be connected to ground.

The K24C16 does not use the device address pins, which limits the number of devices on a single bus to one. The A0, A1, and A2 pins are no connects and can be connected to ground.

SERIAL DATA (SDA): The SDA pin is bi-directional for serial data transfer. This pin is open-drain driven and may be wire-ORed with any number of other open-drain or open- collector devices.

SERIAL CLOCK (SCL): The SCL input is used to positive edge clock data into each EEPROM device and negative edge clock data out of each device.

WRITE PROTECT (WP): The K24C02/K24C04/K24C08/K24C16 has a Write Protect pin that provides hardware data protection. The Write Protect pin allows normal read/write operations when connected to ground (GND). When the Write Protect pin is connected to Vcc, the write protection feature is enabled and operates as shown in the following

► Table 2: Write Protect

	Part of the Array Protected				
WP Pin Status	K24C02	K24C04	K24C08	K24C16	
At Vcc	Full (2K) Array	Full (4K) Array	Full (8K) Array	Full (16K) Array	
At GND	Normal Read / Write Operations				

Memory Organization

K24C02, **2K SERIAL EEPROM**: Internally organized with 32 pages of 8 bytes each, the 2K requires an 8-bit data word address for random word addressing.

K24C04, **4K SERIAL EEPROM**: Internally organized with 32 pages of 16 bytes each, the 4K requires a 9-bit data word address for random word addressing.

K24C08, **8K SERIAL EEPROM:** Internally organized with 64 pages of 16 bytes each, the 8K requires a 10-bit data word address for random word addressing.

K24C16, **16K SERIAL EEPROM:** Internally organized with 128 pages of 16 bytes each, the 16K requires an 11-bit data word address for random word addressing.

V1 8

2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

Device Operation

CLOCK and DATA TRANSITIONS: The SDA pin is normally pulled high with an external device. Data on the SDA pin may change only during SCL low time periods (see to Figure 1 on page 4). Data changes during SCL high periods will indicate a start or stop condition as defined below.

START CONDITION: A high-to-low transition of SDA with SCL high is a start condition which must precede any other command (see to Figure 2 on page 4).

STOP CONDITION: A low-to-high transition of SDA with SCL high is a stop condition. After a read sequence, the stop command will place the EEPROM in a standby power mode (see Figure 2 on page 4).

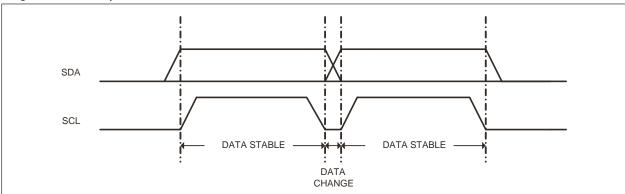
ACKNOWLEDGE: All addresses and data words are serially transmitted to and from the EEPROM in 8-bit words. The EEPROM sends a "0" to acknowledge that it has received each word. This happens during the ninth clock cycle.

STANDBY MODE: The K24C02/K24C04/K24C08/K24C16 features a low-power standby mode which is enabled: (a) upon power-up and (b) after the receipt of the STOP bit and the completion of any internal operations

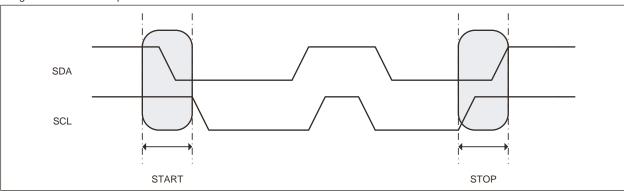
MEMORY RESET: After an interruption in protocol, power loss or system reset, any two-wire part can be reset by following these steps:

- 1. Clock up to 9 cycles.
- 2. Look for SDA high in each cycle while SCL is high.
- 3. Create a start condition.

► Figure 1: Data Validity



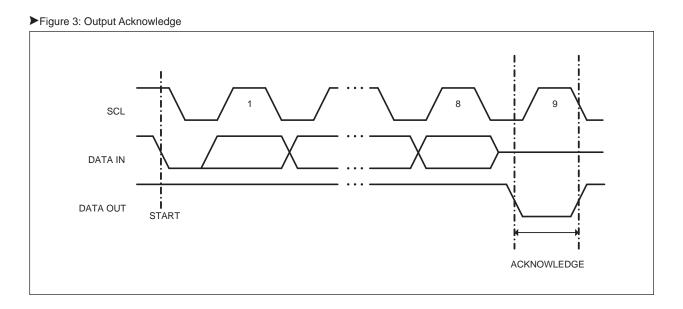
► Figure 2: Start and Stop Definition



V1 8



2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)



Device Addressing

The 2K, 4K, 8K and 16K EEPROM devices all require an 8-bit device address word following a start condition to enable the chip for a read or write operation (see to Figure 4 on page 7).

The device address word consists of a mandatory "1", "0" sequence for the first four most significant bits as shown. This is common to all the Serial EEPROM devices.

The next 3 bits are the A2, A1 and A0 device address bits for the 2K EEPROM. These 3 bits must compare to their corresponding hardwired input pins.

The 4K EEPROM only uses the A2 and A1 device address bits with the third bit being a memory page address bit. The two device address bits must compare to their corresponding hardwired input pins. The A0 pin is no connect.

The 8K EEPROM only uses the A2 device address bit with the next 2 bits being for memory page addressing. The A2 bit must compare to its corresponding hard-wired input pin. The A1 and A0 pins are no connect.

The 16K does not use any device address bits but instead the 3 bits are used for memory page addressing. These page addressing bits on the 4K, 8K and 16K devices should be considered the most significant bits of the data word address which follows. The A0, A1 and A2 pins are no connect.

The eighth bit of the device address is the read/write operation select bit. A read operation is initiated if this bit is high and a write operation is initiated if this bit is low.

Upon a compare of the device address, the EEPROM will output a "0". If a compare is not made, the chip will return to a standby state.



V1_8

2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

Write Operations

BYTE WRITE: A write operation requires an 8-bit data word address following the device address word and acknowledgment. Upon receipt of this address, the EEPROM will again respond with a "0" and then clock in the first 8-bit data word. Following receipt of the 8-bit data word, the EEPROM will output a "0" and the addressing device, such as a microcontroller, must terminate the write sequence with a stop condition. At this time the EEPROM enters an internally timed write cycle, tWR, to the nonvolatile memory. All inputs are disabled during this write cycle and the EEPROM will not respond until the write is complete (see Figure 5 on page 7).

PAGE WRITE: The 2K EEPROM is capable of an 8-byte page write, and the 4K, 8K and 16K devices are capable of 16-byte page writes.

A page write is initiated the same as a byte write, but the microcontroller does not send a stop condition after the first data word is clocked in. Instead, after the EEPROM acknowledges receipt of the first data word, the microcontroller can transmit up to seven (2K) or fifteen (4K, 8K, 16K) more data words. The EEPROM will respond with a "0" after each data word received. The microcontroller must terminate the page write sequence with a stop condition (see Figure 6 on page 7).

The data word address lower three (2K) or four (4K, 8K, 16K) bits are internally incremented following the receipt of each data word. The higher data word address bits are not incremented, retaining the memory page row location. When the word address, internally generated, reaches the page boundary, the following byte is placed at the beginning of the same page. If more than eight (2K) or sixteen (4K, 8K, 16K) data words are transmitted to the EEPROM, the data word address will "roll over" and previous data will be overwritten.

ACKNOWLEDGE POLLING: Once the internally timed write cycle has started and the EEPROM inputs are disabled, acknowledge polling can be initiated. This involves sending a start condition followed by the device address word. The read/write bit is representative of the operation desired. Only if the internal write cycle has completed will the EEPROM respond with a "0", allowing the read or write sequence to continue.

Read Operations

Read operations are initiated the same way as write operations with the exception that the read/write select bit in the device address word is set to "1". There are three read operations: current address read, random address read and sequential read.

CURRENT ADDRESS READ: The internal data word address counter maintains the last accessed address, and incremented by one.^{*} This address stays valid between operations as long as the chip power is maintained. The address "roll over" during read is from the last byte of the last memory page to the first byte of the first page. The address "roll over" during write is from the last byte of the current page to the first byte of the same page.

Once the device address with the read/write select bit set to "1" is clocked in and acknowledged by the EEPROM, the current address data word is serially clocked out. The microcontroller does not respond with an input "0" but does generate a following stop condition (see Figure 7 on page 8).

* For 16K EEPROM, we also provide special addressing product for certain applications, that is, only lower 8 bits of the internal data word address counter maintains the last accessed address, the higher 3 bits (P2, P1, P0) will follow the device address input at each current address read. So, please contact your dealer for special ordering.



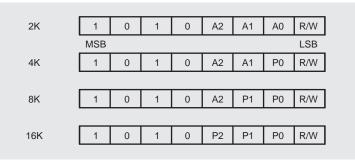
2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

Read Operations

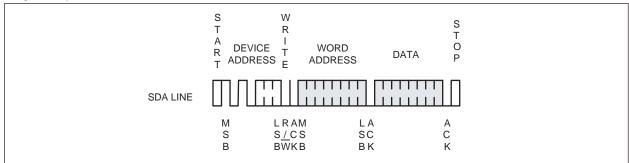
RANDOM READ: A random read requires a "dummy" byte write sequence to load in the data word address. Once the device address word and data word address are clocked in and acknowledged by the EEPROM, the microcontroller must generate another start condition. The microcontroller now initiates a current address read by sending a device address with the read/write select bit high. The EEPROM acknowledges the device address and serially clocks out the data word. The microcontroller does not respond with a "0" but does generate a following stop condition (see Figure 8 on page 8).

SEQUENTIAL READ: Sequential reads are initiated by either a current address read or a random address read. After the microcontroller receives a data word, it responds with an acknowledge. As long as the EEPROM receives an acknowledge, it will continue to increment the data word address and serially clock out sequential data words. When the memory address limit is reached, the data word address will "roll over" and the sequential read will continue. The sequential read operation is terminated when the microcontroller does not respond with a "0" but does generate a following stop condition (see Figure 9 on page 8).

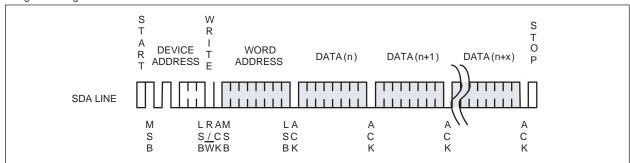
► Figure 4: Device Address



► Figure 5: Byte Write



► Figure 6: Page Write



V1_8

2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

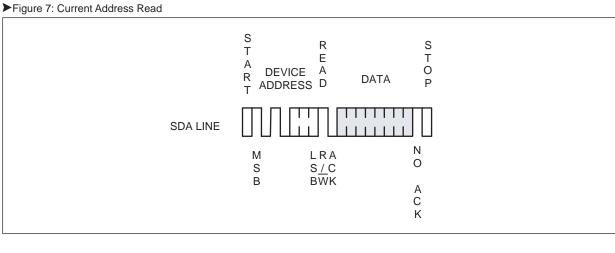
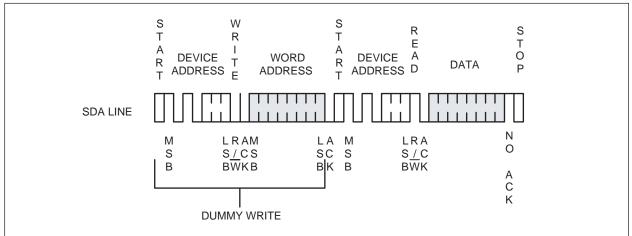
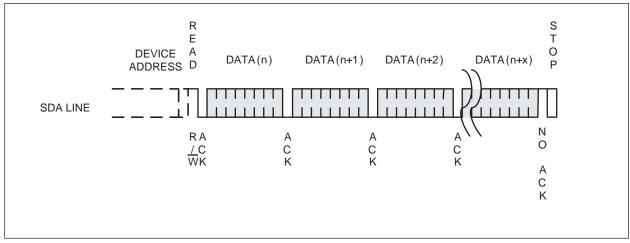


Figure 8: Random Read



► Figure 9: Sequential Read



2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)



Electrical Characteristics

Absolute Maximum Stress Ratings

▶ Comments

DC Supply Voltage	0.3V to +6.5V
Input / Output Voltage	0-0.3V to Vcc+0.3V
Operating Ambient Temperature	55℃ to +125℃
Storage Temperature	-65°C to +150°C

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

DC Electrical Characteristics

► Applicable over recommended operating range from: T_A = -40°C to +85°C, V_{CC} = +1.7V to +5.5V (unless otherwise noted)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Supply Voltage	Vcc	1.7	-	5.5	V	
Supply Current Vcc = 5.0V	Icc1	-	0.4	1.0	mA	READ at 400 kHz
Supply Current Vcc = 5.0V	Icc2	-	2.0	3.0	mA	WRITE at 400 kHz
Standby Current	lsв	-	-	3.0	μA	VIN = Vcc or GND
Input Leakage Current	lu	-	-	3.0	μA	VIN = Vcc or GND
Output Leakage Current	Ilo	-	0.05	3.0	μA	Vout = Vcc or GND
Input Low Level	VIL1	-0.3	-	Vcc x 0.3	V	Vcc = 1.8V to 5.5V
Input High Level	VIH1	Vcc x 0.7	-	Vcc + 0.3	V	Vcc = 1.8V to 5.5V
Input Low Level	VIL2	-0.3	-	Vcc x 0.2	V	Vcc = 1.7V
Input High Level	VIH2	Vcc x 0.7	-	Vcc + 0.3	V	Vcc = 1.7V
Output Low Level Vcc =5.0V	Vol3	-	-	0.4	V	lo∟ = 3.0 mA
Output Low Level Vcc =3.0V	Vol2	-	-	0.4	V	IoL = 2.1 mA
Output Low Level Vcc =1.7V	VOL1	-	-	0.2	V	lo∟ = 0.15 mA

Pin Capacitance

Applicable over recommended operating range from $T_A = 25^{\circ}C$, f = 1.0 MHz, $V_{CC} = +1.7 \text{ V}$

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
Input/Output Capacitance (SDA)	Cı/o	-	-	8	pF	$V_{I/O} = 0V$
Input Capacitance (A0, A1, A2, SCL)	Cin	-	-	6	pF	Vin = 0V



AC Electrical Characteristics

► Applicable over recommended operating range from T_A = -40°C to +85°C, V_{CC} = +1.7V to +5.5V, C_L = 1 TTL Gate and 100 pF (unless otherwise noted)

Doromator	Cumb al	1.7v ≤ Vcc < 2.5v			2.5v ≤ Vcc ≤ 5.5v			Units
Parameter	Symbol	Min.	Тур.	Max.	Min.	Тур.	Max.	Units
Clock Frequency, SCL	fsc∟	-	-	400	-	-	1000	kHz
Clock Pulse Width Low	t LOW	1.2	-	-	0.6	-	-	μs
Clock Pulse Width High	tніgн	0.6	-	-	0.4	-	-	μs
Noise Suppression Time	tı	-	-	50	-	-	40	ns
Clock Low to Data Out Valid	taa	0.05	-	0.9	0.05	-	0.55	μs
Time the bus must be free before a new transmission can start	t BUF	1.2	-	-	0.5	-	-	μs
Start Hold Time	thd.sta	0.6	-	-	0.25	-	-	μs
Start Setup Time	t su.sta	0.6	-	-	0.25	-	-	μs
Data In Hold Time	thd.dat	0	-	-	0	-	-	μs
Data In Setup Time	tsu.dat	100	-	-	100	-	-	ns
Inputs Rise Time(1)	tR	-	-	0.3	-	-	0.3	μs
Inputs Fall Time(1)	t⊧	-	-	300	-	-	100	ns
Stop Setup Time	tsu.sto	0.6	-	-	0.25	-	-	μs
Data Out Hold Time	tон	50	-	-	50	-	-	ns
Write Cycle Time	twr	-	1.5	5	-	1.5	5	ms
5.0V, 25°C, Byte Mode	Endurance	1M	-	-	-	-	-	Write Cycles

Note

1. This parameter is characterized and is not 100% tested.

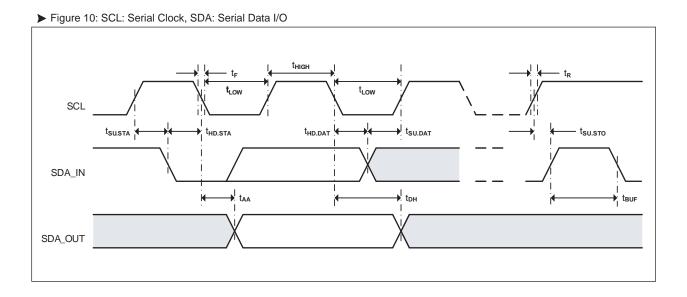
2. AC measurement conditions:

RL (connects to Vcc): 1.3 k Ω (2.5V, 5V), 10 k Ω (1.7V) Input pulse voltages: 0.3 Vcc to 0.7 Vcc

Input rise and fall time: \leq 50 ns

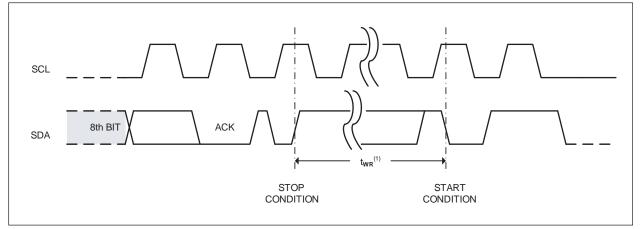
Input and output timing reference voltages: 0.5 Vcc The value of $R_{\rm L}\,$ should be concerned according to the actual loading on the user's system.

Bus Timing



Write Cycle Timing

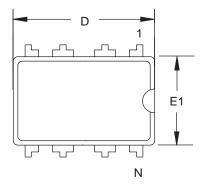
▶ Figure 11: SCL: Serial Clock, SDA: Serial Data I/O



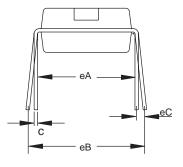
Note

1. The write cycle time twr is the time from a valid stop condition of a write sequence to the end of the internal clear/write cycle.

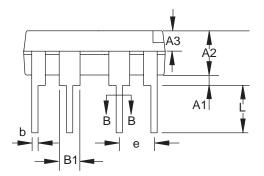
8-lead PDIP package diagram



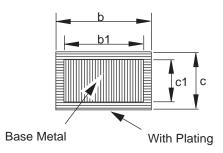
Top View



End View



Side View



Section B-B

COMMON DIMENSIONS

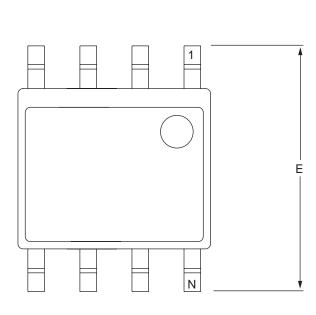
(Unit of Measure = mm)

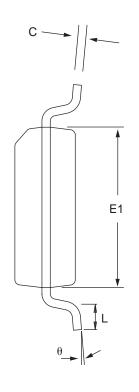
SYMBOL	MIN	MAX		
А	3.60	4.00		
A1	0.51	-		
A2	3.10	3.50		
A3	1.50	1.70		
b	0.44	0.53		
b1	0.43	0.48		
В	1.52 BSC			
С	0.25	0.31		
c1	0.24	0.26		
D	9.05	9.45		
E1	6.15	6.55		
е	2.54 BSC			
eA	7.62 BSC			
eB	7.62	9.50		
eC	0	0.94		
L	3.00	-		



.012.

8-lead SOP package diagram

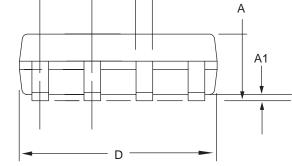




End View



Top View



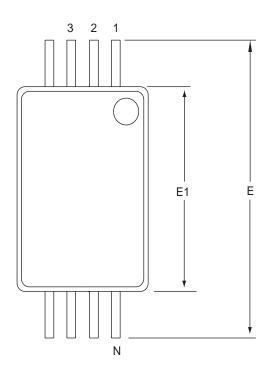
Side View

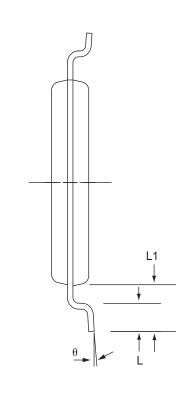
COMMON DIMENSIONS (Unit of Measure = mm)

	-		
SYMBOL	MIN	MAX	
A	1.35	1.75	
A1	0.10	0.25	
b	0.31	0.51	
С	0.17	0.25	
D	4.70	5.10	
E1	3.80	4.00	
E	5.79	6.20	
е	1.27 BSC		
L	0.40	1.27	
θ	0°	8°	

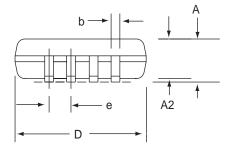
е

8-lead TSSOP package diagram





Top View



Side View

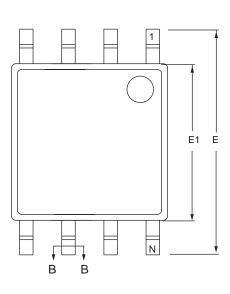
COMMON DIMENSIONS

End View

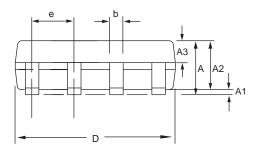
(Unit of Measure = mm)

SYMBOL	MIN	MAX	
D	2.80	3.20	
E	6.20	6.60	
E1	4.20	4.60	
A	-	1.20	
A2	0.80	1.15	
b	0.19	0.30	
е	0.65 BSC		
L	0.45	0.75	
L1	1.00 BSC		
θ	0°	8°	

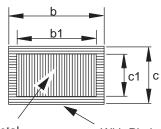
8-lead MSOP package diagram



Top View



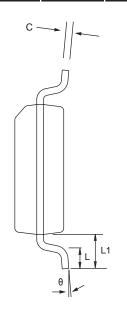




Base Metal

With Plating

Section B-B



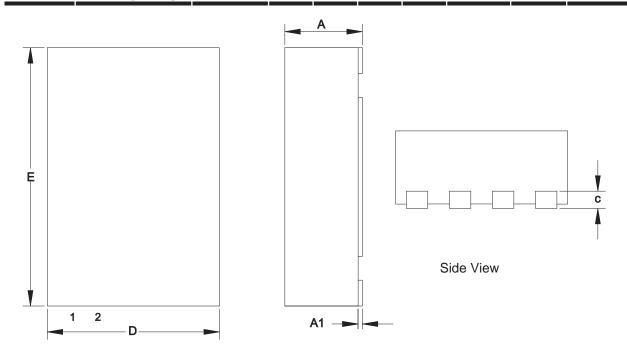
End View

COMMON DIMENSIONS

(Unit of Measure = mm)

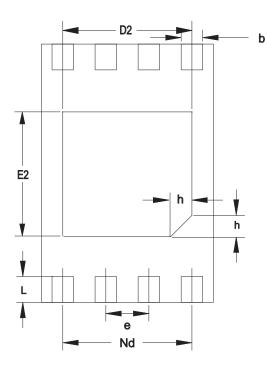
SYMBOL	MIN	MAX
А	-	1.10
A1	0.05	0.15
A2	0.75	0.95
A3	0.30	0.40
b	0.29	0.38
b1	0.28	0.33
с	0.15	0.20
c1	0.14	0.16
D	2.90	3.10
E	4.70	5.10
E1	2.90	3.10
е	0.65	BSC
L	0.40	0.70
L1	0.95	BSC
θ	0°	8°

8-pad DFN package diagram



Top View

End View

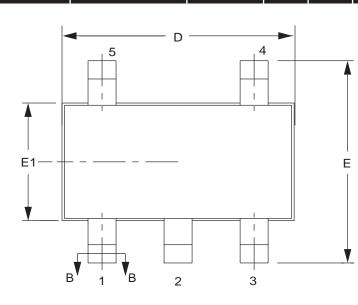


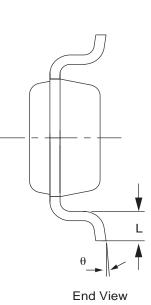
COMMON DIMENSIONS (Unit of Measure = mm)

SYMBOL	MIN	MAX	
A	0.70	0.80	
A1	-	0.05	
b	0.18	0.30	
с	0.18	0.25	
D	1.90	2.10	
D2	1.50 REF		
е	0.50 BSC		
Nd	1.50 BSC		
E	2.90 3.10		
E2	1.60 BSC		
L	0.30 0.50		
h	0.20 0.30		

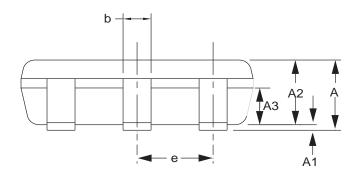


5-lead SOT package diagram

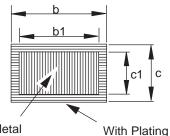




Top View







Base Metal

Section B-B

COMMON DIMENSIONS (Unit of Measure = mm)

SYMBOL	MIN	MAX		
А	1.05	1.30		
A1	0	0.10		
A2	1.00	1.20		
A3	0.55	0.75		
b	0.30	0.50		
b1	0.33	0.38		
с	0.10	0.21		
c1	0.14	0.16		
D	2.72	3.12		
E	2.60	3.00		
E1	1.40	1.80		
е	0.95 BSC			
L	0.30	0.60		
θ	0°	8°		

K24C02/K24C04/K24C08/K24C16

Two-wire Serial EEPROM 2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

Ordering Information

Product Name:	к	24	XXX								
Part Number:	к	24	xxx	-	х	х	х	х	х		
	1	2	3		4	5	6	7	8	(version)	
1.Prefix		4.Package Type			5.Temperature Range					7.Plating Technology	
2.Series Name 24: Two-wire (I2C) Interfa	се	D = PDIF S = SOP T = TSS0	I = Industry (-40°C to +85°C) 6.Pack Type T = Tube R = Tape & Reel				to +85°C)		Blank = Standard SnPb plating G = RoHS compliant S = Green, level 1 X = Green, level 3 8.Operating Voltage		
B.EEPROM Density		M = MSC									
C02 = 2K bits		N = DFN									
C04 = 4K bits C08 = 8K bits		O = SOT								A = 1.7 to 5.5 V	

Available package types

Model	PDIP	SOP	TSSOP	MSOP	DFN	SOT23
K24C02	\checkmark	\checkmark	\sim	\checkmark	\sim	\checkmark
K24C04	\checkmark	\checkmark	\checkmark	\checkmark	\sim	\checkmark
K24C08	\checkmark	\checkmark	\checkmark	\sim	\sim	\checkmark
K24C16		\checkmark	\checkmark	\checkmark	\checkmark	-

Product Datasheet Change Notice

Datasheet Revision History					
Version	Content	Date			
1.0	Initial version	Dec., 2006			
1.2	Package type update	Dec., 2008			
1.3	Design version & Package type update	Jan., 2011			
1.4	Code Number update	May., 2011			
1.5	Ordering information update	Jan., 2012			
1.6	Add Vcc=1.7v	Mar., 2012			
1.7	Isb updated	Jul., 2012			
1.8	Product features update	Jul., 2014			

2K bits (256 X 8) / 4K bits (512 X 8) / 8K bits (1024 X 8) / 16K bits (2048 X 8)

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K24C Series (I2C Bus) Serial EEPROM Data Sheet, Revision 1.8

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