Atmel

Atmel AT24C01C and AT24C02C

I²C-Compatible (2-wire) Serial EEPROM

1-Kbit (128 x 8), 2-Kbit (256 x 8)

DATASHEET

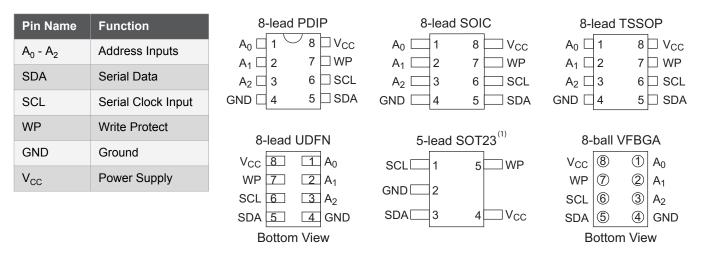
Features

- Low-voltage operation
 - V_{CC} = 1.7V to 5.5V
- Internally organized as 128 x 8 (1K) or 256 x 8 (2K)
- I²C compatible (2-wire) serial interface
- Schmitt Trigger, filtered inputs for noise suppression
- Bidirectional data transfer protocol
- 400kHz (1.7V) and 1MHz (2.5V, 2.7V, 5.0V) compatibility
- Write Protect pin for hardware data protection
- 8-byte Page Write mode
 - Partial page writes allowed
- Self-timed write cycle (5ms max)
- High-reliability
 - Endurance: 1,000,000 write cycles
 - Data retention: 100 years
- Green package options (Pb/Halide-free/RoHS-compliant)
 - 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead TSSOP, 8-pad UDFN, 5-lead SOT23, and 8-ball VFBGA
- Die sale options: wafer form and tape and reel available

Description

The Atmel[®] AT24C01C/02C provides 1024/2048-bits of Serial Electrically Erasable and Programmable Read-Only Memory (EEPROM) organized as 128/256 words of eight bits each. Both devices include a cascading feature that allows up to eight devices to share a common 2-wire bus. These devices are optimized for use in many industrial and commercial applications where low power and low voltage operation are essential. The AT24C01C/02C are available in space saving 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead TSSOP, 8-lead UDFN, 5-lead SOT23, and 8-ball VFBGA packages. In addition, the entire family operates from 1.7V to 5.5V V_{CC} .

1. Pin Configurations and Pinouts



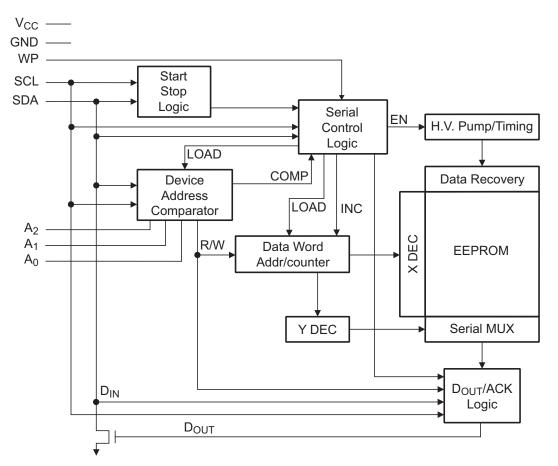
Note: 1. For use of 5-lead SOT23, the software A2, A1, and A0 bits in the device address word must be set to zero to properly communicate.

2. Absolute Maximum Ratings

Operating Temperature55°C to +125°C
Storage Temperature65°C to +150°C
Voltage on any pin with respect to ground1.0V to +7.0V
Maximum Operating Voltage 6.25V
DC Output Current

*Notice: Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. This is a stress rating only and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

3. Block Diagram



4. Pin Description

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.

Serial Data (SDA): The SDA pin is bidirectional 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.

Device/Page Addresses (A₂, A₁, A₀): The A₂, A₁, and A₀ pins are device address inputs that are hard wired for the AT24C01C/02C. As many as eight 1-Kbit or 2-Kbit devices may be addressed on a single bus system. See Section 7. "Device Addressing" on page 9 for more details.

Write Protect (WP): The AT24C01C/02C have 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 V_{CC} , the write protection feature is enabled and operates as shown below in Table 4-1.

WP Pin	Part of the Array Protected
Status	Atmel AT24C01C and AT24C02C
At V _{CC}	Full (2K) Array
At GND	Normal Read/Write Operations

Table 4-1. Write Protect

5. Memory Organization

Atmel AT24C01C, 1K Serial EEPROM: Internally organized with 16 pages of eight bytes each, the 1K requires a 7-bit data word address for random word addressing.

Atmel AT24C02C, 2K Serial EEPROM: Internally organized with 32 pages of eight bytes each, the 2K requires an 8-bit data word address for random word addressing.

Table 5-1. Pin Capacitance⁽¹⁾

Applicable over recommended operating range from $T_A = 25^{\circ}C$, f = 1.0MHz, $V_{CC} = 1.7V$ to 5.5V

Symbol	Test Condition	Max	Units	Conditions
C _{I/O}	Input/Output Capacitance (SDA)	8	pF	V _{I/O} = 0V
C _{IN}	Input Capacitance (A ₀ , A ₁ , A ₂ , SCL)	6	pF	$V_{IN} = 0V$

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

Table 5-2. DC Characteristics

Applicable over recommended operating range from: $T_{AI} = -40^{\circ}$ C to +85°C, $V_{CC} = 1.7$ V to 5.5V (unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
V _{CC1}	Supply Voltage		1.7		5.5	V
V _{CC2}	Supply Voltage		2.5		5.5	V
V _{CC3}	Supply Voltage		4.5		5.5	V
I _{CC1}	Supply Current V_{CC} = 5.0V	Read at 400kHz		0.4	1.0	mA
I _{CC2}	Supply Current V _{CC} = 5.0V	Write at 400kHz		2.0	3.0	mA
I _{SB1}	Standby Current V _{CC} = 1.7V	V_{IN} = V_{CC} or V_{SS}			1.0	μA
I _{SB2}	Standby Current V_{CC} = 2.5V	V_{IN} = V_{CC} or V_{SS}			2.0	μA
I _{SB3}	Standby Current V _{CC} = 5.5V	V_{IN} = V_{CC} or V_{SS}			6.0	μA
I _{LI}	Input Leakage Current	V_{IN} = V_{CC} or V_{SS}		0.10	3.0	μA
I _{LO}	Output Leakage Current	V_{OUT} = V_{CC} or V_{SS}		0.05	3.0	μA
V _{IL}	Input Low Level ⁽¹⁾		-0.6		V _{CC} x 0.3	V
V _{IH}	Input High Level ⁽¹⁾		V _{CC} x 0.7		V _{CC} + 0.5	V
V _{OL1}	Output Low Level V _{CC} = 1.7V	I _{OL} = 0.15mA			0.2	V
V _{OL2}	Output Low Level V _{CC} = 3.0V	I _{OL} = 2.1mA			0.4	V

Note: 1. V_{IL} min and V_{IH} max are reference only and are not tested.

Table 5-3. AC Characteristics

Applicable over recommended operating range from $T_{AI} = -40^{\circ}$ C to +85°C, $V_{CC} = 1.7$ V to 5.5V, CL = 1TTL Gate and 100pF (unless otherwise noted). Test conditions are listed in Note 2.

		1.	7V	2.5V	,5.0V	
Symbol	Parameter	Min	Max	Min	Max	Units
f _{SCL}	Clock Frequency, SCL		400		1000	kHz
t _{LOW}	Clock Pulse Width Low	1.2		0.4		μs
t _{HIGH}	Clock Pulse Width High	0.6		0.4		μs
t _i	Noise Suppression Time		100		50	ns
t _{AA}	Clock Low to Data Out Valid	0.1	0.9	0.05	0.55	μs
t _{BUF}	Time the bus must be free before a new transmission can start.	1.2		0.5		μs
t _{HD.STA}	Start Hold Time	0.6		0.25		μs
t _{SU.STA}	Start Setup Time	0.6		0.25		μs
t _{HD.DAT}	Data In Hold Time	0		0		μs
t _{SU.DAT}	Data In Setup Time	100		100		ns
t _R	Inputs Rise Time ⁽¹⁾		0.3		0.3	μs
t _F	Inputs Fall Time ⁽¹⁾		300		100	ns
t _{SU.STO}	Stop Setup Time	0.6		.25		μs
t _{DH}	Data Out Hold Time	50		50		ns
t _{WR}	Write Cycle Time		5		5	ms
Endurance ⁽¹⁾	3.3V, +25°C, Page Mode		1,000	0,000		Write Cycles

Note: 1. This parameter is ensured by characterization only.

- 2. AC measurement conditions:
 - R_L (connects to V_{CC}): 1.3 k Ω (2.5V, 5V), 10 k Ω (1.7V)
 - Input pulse voltages: 0.3 V_{CC} to 0.7 V_{CC}
 - Input rise and fall times: \leq 50ns
 - Input and output timing reference voltages: 0.5 V_{CC}

6. 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 Figure 6-4 on page 8). 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 Figure 6-5 on page 8).

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 6-5 on page 8).

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

Standby Mode: The AT24C01C/02C features a low power standby mode which is enabled:

- Upon power-up.
- After the receipt of the stop bit and the completion of any internal operations.

2-wire Software Reset: After an interruption in protocol, power loss, or system reset, any 2-wire part can be reset by following these steps:

- 1. Create a start bit condition.
- 2. Clock nine cycles.
- 3. Create another start bit followed by stop bit condition as shown in Figure 6-1.

The device is ready for the next communication after above steps have been completed.



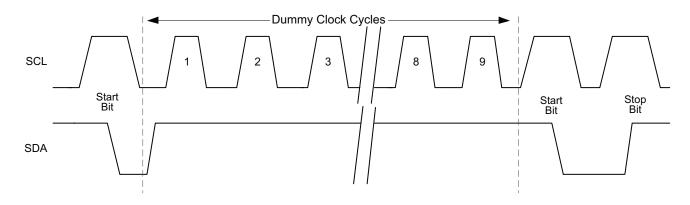
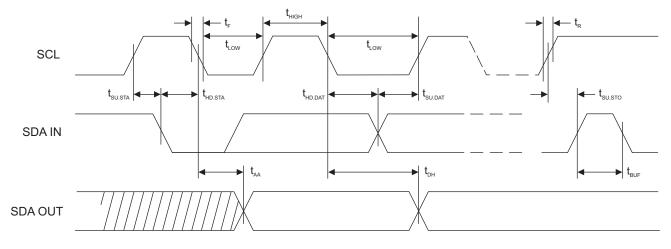


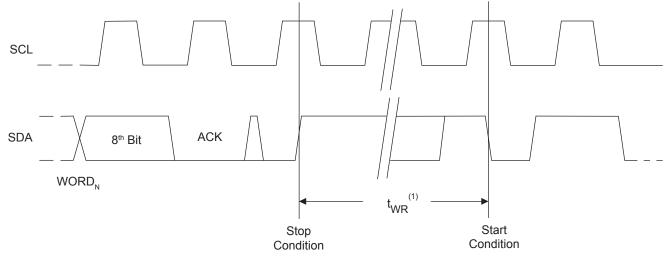
Figure 6-2. Bus Timing



SCL: Serial Clock, SDA: Serial Data I/O

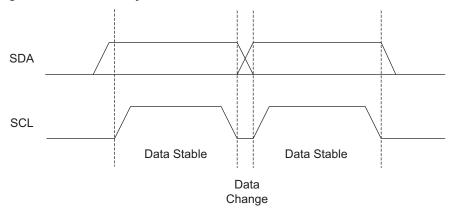
Figure 6-3. Write Cycle Timing

SCL: Serial Clock, SDA: Serial Data I/O

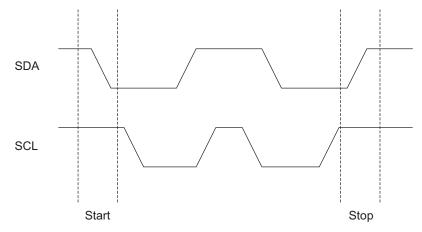


Notes: 1. The write cycle time t_{WR} is the time from a valid Stop condition of a write sequence to the end of the internal clear/write cycle.

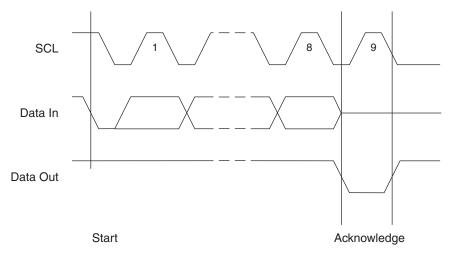














7. Device Addressing

The 1-Kbit and 2-Kbit EEPROM device requires an 8-bit device address word following a start condition to enable the chip for a Read or Write operation.

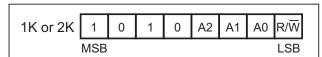
The device address word consists of a mandatory `1010' (0xA) sequence for the first four most significant bits as shown in Figure 7-1. This is common to all Serial EEPROM devices.

The next three bits are the A2, A1, and A0 device address bits for the 1K and 2K EEPROM. These three bits must compare to their corresponding hard-wired input pins A_2 , A_1 , and A_0 in order for the part to acknowledge.

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 valid compare of the device address with hard-wired input pins A_2 , A_1 , and A_0 , the EEPROM will output a zero. If a compare is not successfully made, the chip will return to a standby state.

Figure 7-1. Device Address



8. Write Operations

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Byte Write: A Byte 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 zero and then clock in the first 8-bit data word. Following receipt of the 8-bit data word, the EEPROM will output a zero 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, t_{WR}, 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 9-1 on page 10).

Page Write: The 1-Kbit and 2-Kbit EEPROM are capable of an 8-byte Page Write.

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 data words. The EEPROM will respond with a zero after each data word received. The microcontroller must terminate the page write sequence with a Stop condition (see Figure 9-2 on page 10).

The data word address lower three 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 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 zero allowing the read or write sequence to continue.

Data Security: The AT24C01C/02C has a hardware data protection scheme that allows the user to write protect the entire memory when the WP pin is at V_{CC} .

9. 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 one. There are three read operations:

- Current Address Read
- Random Address Read
- Sequential Read.

Current Address Read: The internal data word address counter maintains the last address accessed during the last read or write operation, 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 one is clocked in and acknowledged by the EEPROM, the current address data word is serially clocked out. The microcontroller does not respond with an zero but does generate a following Stop condition (see Figure 9-3 on page 11).

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 zero but does generate a following stop condition (see Figure 9-4 on page 11).

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 zero but does generate a following stop condition (see Figure 9-5 on page 11).

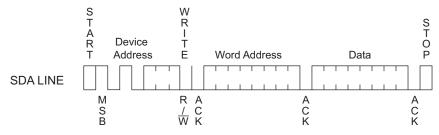
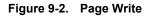
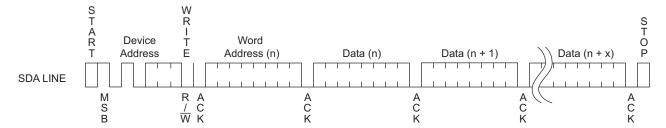
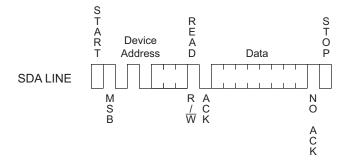


Figure 9-1. Byte Write









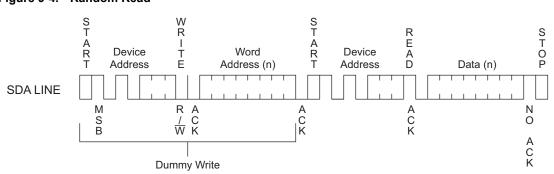
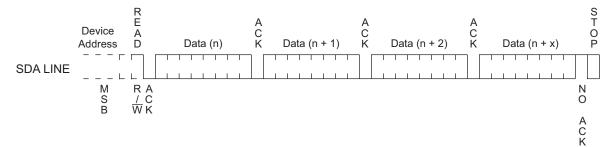
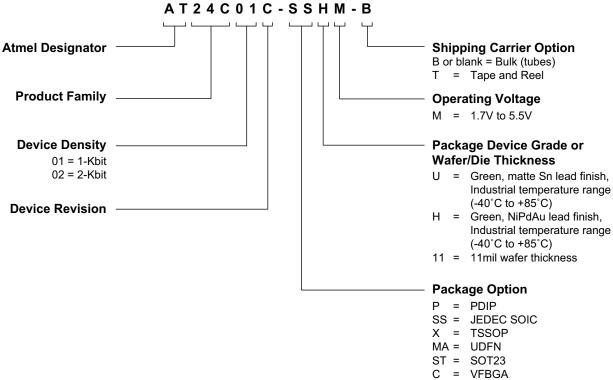


Figure 9-4. Random Read





10. Ordering Code Detail



WWU = Wafer unsawn

11. Part Markings

8-lead PDIP		8-lead SOIC	8-lead TSSOP	
###I	AAAAA	ATMLHYWW ###M AAAAAAAA O	ATHYWW ###M @ AAAAAAA	
8-lead UDFN		5-lead SOT-23	8-ball VFBGA	
2.0 x 3.0 mm Body	/		2.35 x 3.73 mm Body	
## HN Y2 ©	40	Top Mark # # #MU Top Mark Top Mark H H H YMXX Bottom Mark	###U @YMXX ●	
Catalog Number Trunc AT24C01C AT24C02C	ation	Truncation Code ###: 01C Truncation Code ###: 02C		
Date Codes	1		Voltages	
Y = Year 2: 2012 6: 2016 3: 2013 7: 2017 4: 2014 8: 2018 5: 2015 9: 2019	M = Month A: January B: February L: December	WW = Work Week of Assemb 02: Week 2 04: Week 4 52: Week 52	M: 1.7V min	
5.2015 5.2015			Grade/Lead Finish	Material
Country of Assembly		_ot Number		
Country of Assembly @ = Country of Assemb		_ot Number AAAA = Atmel Wafer Lot Number	U: Industrial/M H: Industrial/N	latte Tin
@ = Country of Assemb			U: Industrial/N H: Industrial/N	latte Tin
	ly A	AAAA = Atmel Wafer Lot Number	U: Industrial/M	latte Tin
@ = Country of Assemb Trace Code XX = Trace Code (Atme	ly A	AAAA = Atmel Wafer Lot Number	U: Industrial/M H: Industrial/N Atmel Truncation AT: Atmel ATM: Atmel	latte Tin

12. Ordering Codes

12.1 Atmel AT24C01C Ordering Information

Ordering Code		Package	Voltage	Operation Range
AT24C01C-PUM	(Bulk Form Only)	8P3		
AT24C01C-SSHM-B ⁽¹⁾	(NiPdAu Lead Finish)	8S1		
AT24C01C-SSHM-T ⁽²⁾	(NiPdAu Lead Finish)	8S1	-	
AT24C01C-XHM-B ⁽¹⁾	(NiPdAu Lead Finish)	8X		Lead-free/Halogen-free/ Industrial Temperature
AT24C01C-XHM-T ⁽²⁾	(NiPdAu Lead Finish)	8X	1.7V to 5.5V	(-40°C to 85°C)
AT24C01C-MAHM-T ⁽²⁾	(NiPdAu Lead Finish)	8MA2		
AT24C01C-STUM-T ⁽²⁾		5TS1		
AT24C01C-CUM-T ⁽²⁾		8U3-1		
AT24C01C-WWU11M ⁽³⁾		Wafer Sale		Industrial Temperature (–40°C to 85°C)

Notes: 1. B = Bulk (tubes)

- 2. T = Tape and reel
 - SOIC = 4K per reel
 - TSSOP, UDFN, SOT23, and VFBGA = 5K per reel
- 3. For Wafer sales, please contact Atmel Sales.

	Package Type			
8P3	8-lead, 0.300" wide, Plastic Dual Inline (PDIP)			
8S1	8-lead, 0.150" wide, Plastic Gull Wing Small Outline (JEDEC SOIC)			
8X	8-lead, 4.4mm body, Plastic Thin Shrink Small Outline (TSSOP)			
8MA2	8-lead, 2.00mm x 3.00mm body, 0.50mm Pitch, Ultra Thin Dual Flat No Lead (UDFN)			
5TS1	5-lead, 2.90mm x 1.60mm body, Plastic Thin Shrink Small Outline (SOT23)			
8U3-1	8-ball, die Ball Grid Array (VFBGA)			

12.2 Atmel AT24C02C Ordering Information

Ordering Code		Package	Voltage	Operation Range
AT24C02C-PUM	(Bulk Form Only)	8P3		
AT24C02C-SSHM-B ⁽¹⁾	(NiPdAu Lead Finish)	8S1		
AT24C02C-SSHM-T ⁽²⁾	(NiPdAu Lead Finish)	8S1		
AT24C02C-XHM-B ⁽¹⁾	(NiPdAu Lead Finish)	8X		Lead-free/Halogen-free/
AT24C02C-XHM-T ⁽²⁾	(NiPdAu Lead Finish)	8X	1.7V to 5.5V	Industrial Temperature (–40°C to 85°C)
AT24C02C-MAHM-T ⁽²⁾	(NiPdAu Lead Finish)	8MA2		
AT24C02C-STUM-T ⁽²⁾		5TS1		
AT24C02C-CUM-T ⁽²⁾		8U3-1		
AT24C02C-WWU11M ⁽³⁾		Wafer Sale		Industrial Temperature (–40°C to 85°C)

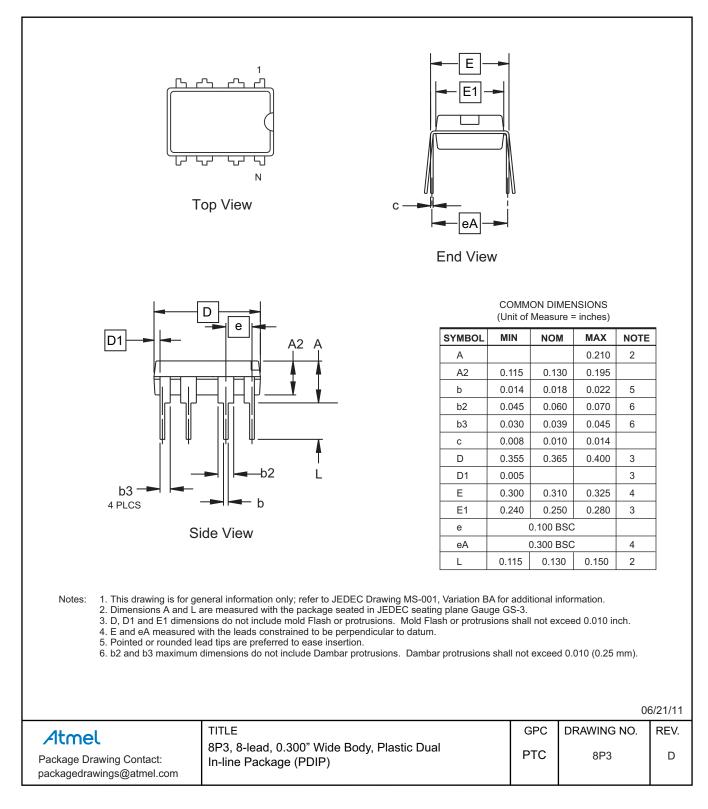
Notes: 1. B = Bulk (tubes)

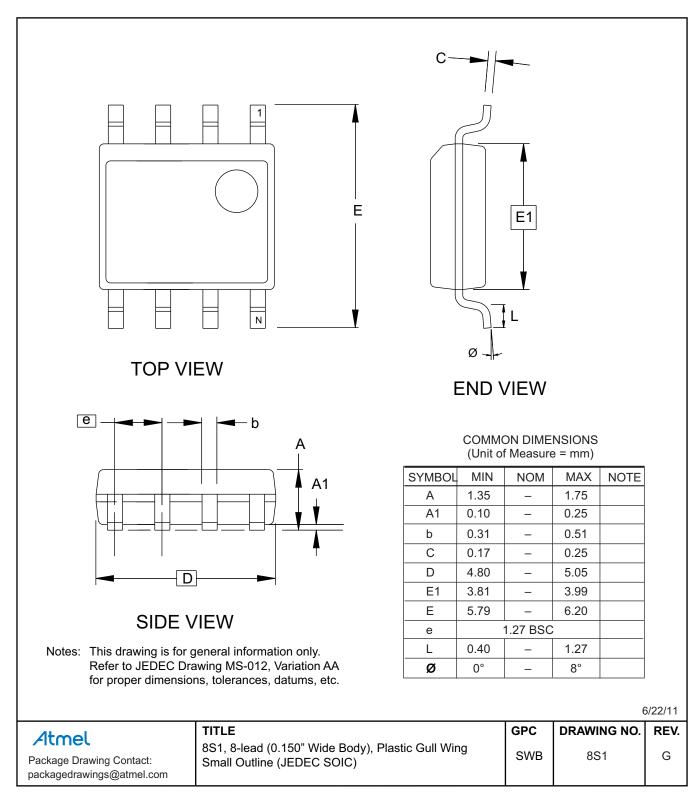
- 2. T = Tape and reel
 - SOIC = 4K per reel
 - TSSOP, UDFN, SOT23, and VFBGA = 5K per reel
- 3. For Wafer sales, please contact Atmel Sales.

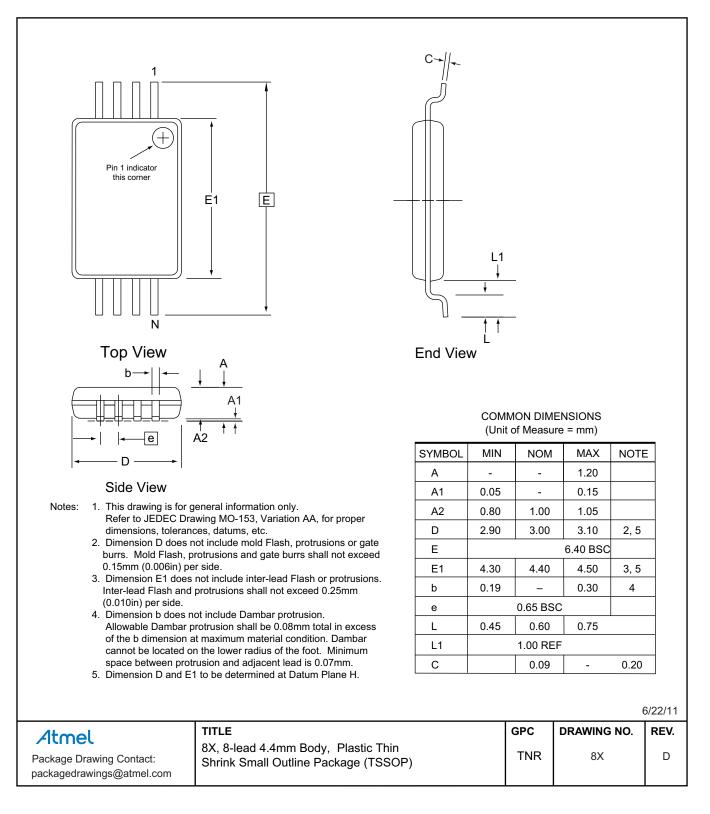
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8MA2	8-lead, 2.00mm x 3.00mm body, 0.50mm Pitch, Ultra Thin Dual Flat No Lead (UDFN)				
5TS1	5-lead, 2.90mm x 1.60mm body, Plastic Thin Shrink Small Outline (SOT23)				
8U3-1	8-ball, die Ball Grid Array (VFBGA)				

13. Packaging Information

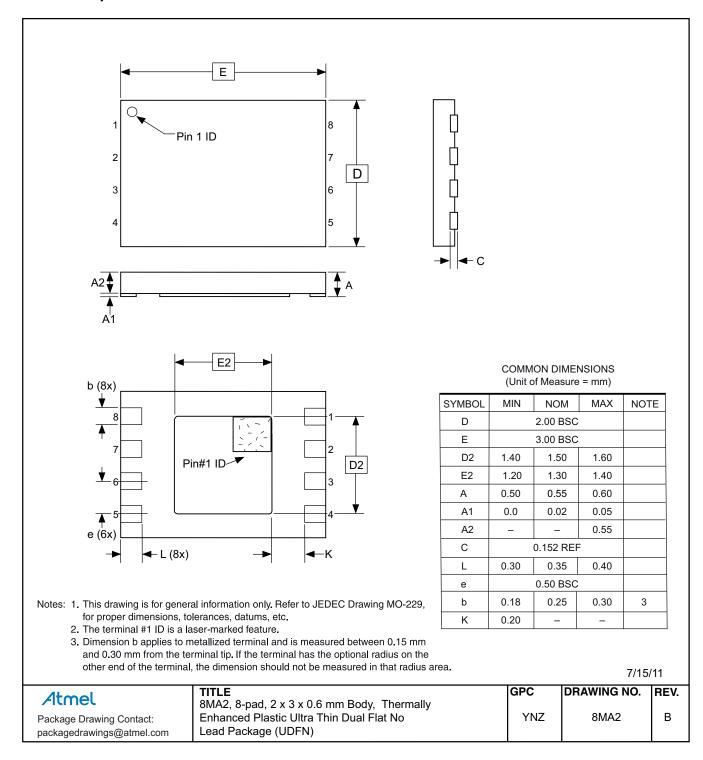
13.1 8P3 — 8-lead PDIP



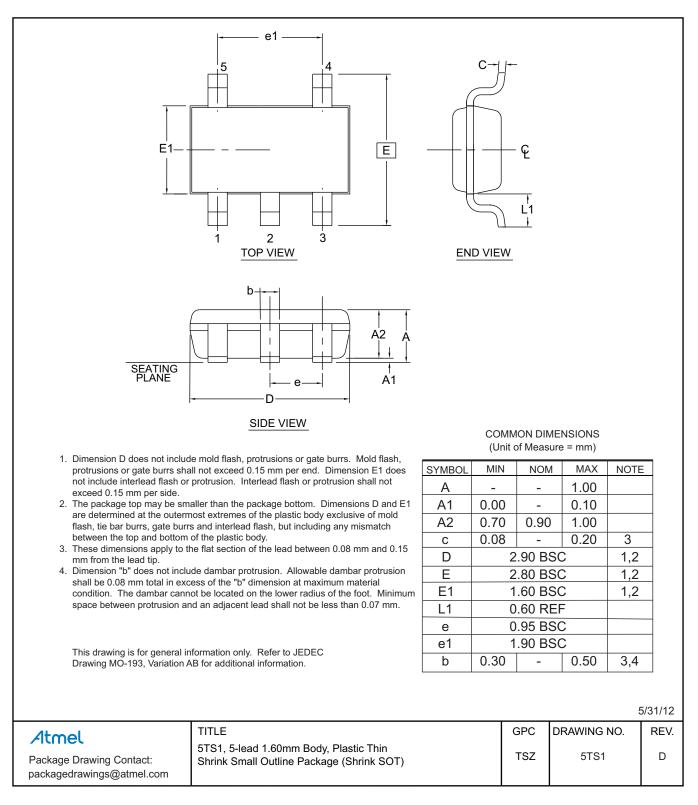




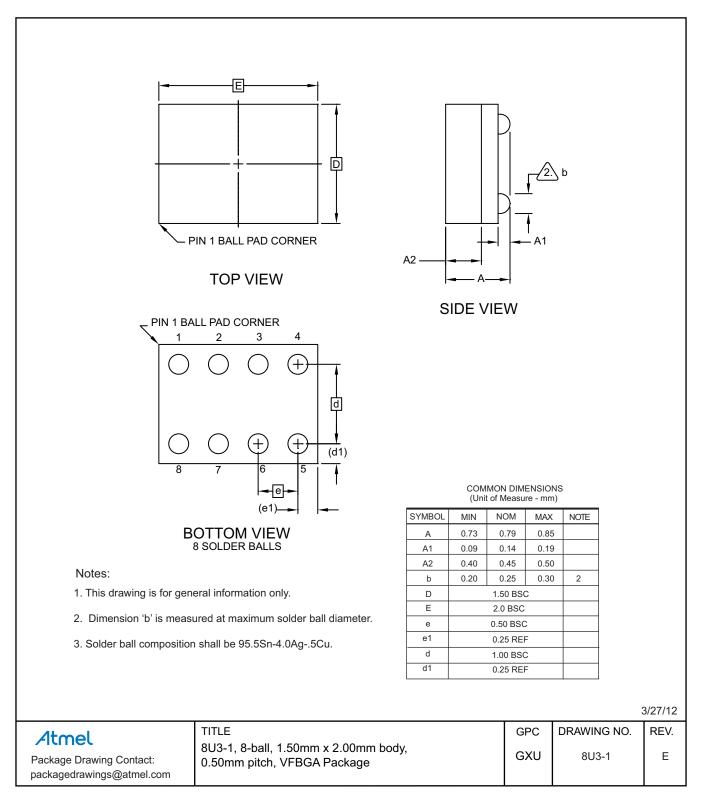
13.4 8MA2 — 8-pad UDFN



13.5 5TS1 — 5-lead SOT23



13.6 8U3-1 - 8-ball VFBGA



14. Revision History

Doc. Rev.	Date	Comments
8700F	06/2012	Correct ordering codes: - AT24C01C-WWU11, Die Sale to AT24C01C-WWU11M, Wafer Sale. - AT24C02C-WWU11, Die Sale to AT24C02C-WWU11M, Wafer Sale. Remove WDT from ordering code detail. Update Atmel logos and disclaimer page.
8700E	05/2012	Update datasheet template. Add AT24C01C to document. Electrical performance improvements: - Reduce all ISB from legacy values - Increase 1MHz frequency range to include 2.5V operation. Update package drawings to latest versions (where applicable) and selected waveforms.
8700D	08/2010	Change AT24C02C-XHM Part Marking from C02CM@ to 02CM @.
8700C	07/2010	Ordering Information: - Change Atmel AT24C02C-TSUM-T to Atmel AT24C02C-STUM-T. - Change Atmel AT24C02CY6-MAHM-T to Atmel AT24C02C-MAHM-T. - Change Atmel AT24C02CU3-CUM-T to Atmel AT24C02C-CUM-T. Catalog numbering scheme, change TS = SOT23 to ST = SOT23. Part marking SOT23: - Change 2CMWU to 2CMBU. - Change W = Write Protection Feature to B = Write Protection. Part marking PDIP and SOIC: Added @ = Country of Assembly. Part marking TSSOP: Replaced and removed bottom mark. Part marking UDFN: Added HM@. Remove preliminary status. Change t _I Max 40 to 50 in Table AC Characteristics.
8700B	02/2010	Correct catalog numbering scheme and ordering information.
8700A	12/2009	Initial document release.

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Atmel Corporation

1600 Technology Drive San Jose, CA 95110 USA **Tel:** (+1) (408) 441-0311 **Fax:** (+1) (408) 487-2600 www.atmel.com Atmel Asia Limited Unit 01-5 & 16, 19F BEA Tower, Millennium City 5 418 Kwun Tong Roa Kwun Tong, Kowloon HONG KONG Tel: (+852) 2245-6100 Fax: (+852) 2722-1369

Atmel Munich GmbH

Business Campus Parkring 4 D-85748 Garching b. Munich GERMANY Tel: (+49) 89-31970-0 Fax: (+49) 89-3194621 Atmel Japan G.K.

16F Shin-Osaki Kangyo Bldg 1-6-4 Osaki, Shinagawa-ku Tokyo 141-0032 JAPAN **Tel:** (+81) (3) 6417-0300 **Fax:** (+81) (3) 6417-0370

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