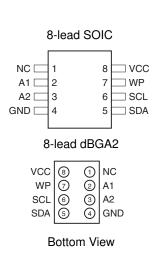
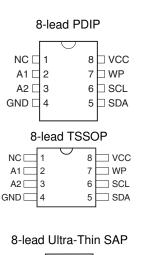
Features

- Low-voltage Operation
 - 1.8V (V_{CC} = 1.8V to 3.6V)
 - $-2.5V (V_{CC} = 2.5V \text{ to } 5.5V)$
- Internally Organized 131,072 x 8
- Two-wire Serial Interface
- Schmitt Triggers, Filtered Inputs for Noise Suppression
- Bidirectional Data Transfer Protocol
- 400 kHz (1.8V) and 1 MHz (5V, 2.5V) Clock Rate
- Write Protect Pin for Hardware and Software Data Protection
- 256-byte Page Write Mode (Partial Page Writes Allowed)
- Random and Sequential Read Modes
- Self-timed Write Cycle (5 ms Typical)
- High Reliability
 - Endurance: 1,000,000 Write Cycles/Page
 - Data Retention: 40 Years
- 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead EIAJ SOIC, 8-lead TSSOP, 8-lead Ultra Thin Small Array (SAP), and 8-ball dBGA2 Packages
- Die Sales: Wafer Form, Tape and Reel and Bumped Die

Description

The AT24C1024B provides 1,048,576 bits of serial electrically erasable and programmable read only memory (EEPROM) organized as 131,072 words of 8 bits each. The device's cascadable feature allows up to four devices to share a common two-wire bus. The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operation are essential. The devices are available in space-saving 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead EIAJ SOIC, 8-lead TSSOP, 8-ball dBGA2 and 8-lead Ultra Thin SAP packages. In addition, the entire family is available in 1.8V (1.8V to 3.6V) and 2.5V (2.5V to 5.5V) versions.





VCC	8	1	NC
WP	7	2	A1
SCL	6	3	A2
SDA	5	4	GND

Bottom View





Two-wire Serial EEPROM

1M (131,072 x 8)

AT24C1024B with Two Device Address Inputs

Rev. 5194F-SEEPR-1/08



Table 0-1.	Pin Configurations		
Pin Name	Function		
A1	Address Input		
A2	Address Input		
SDA	Serial Data		
SCL	Serial Clock Input		
WP	Write Protect		
NC	No Connect		

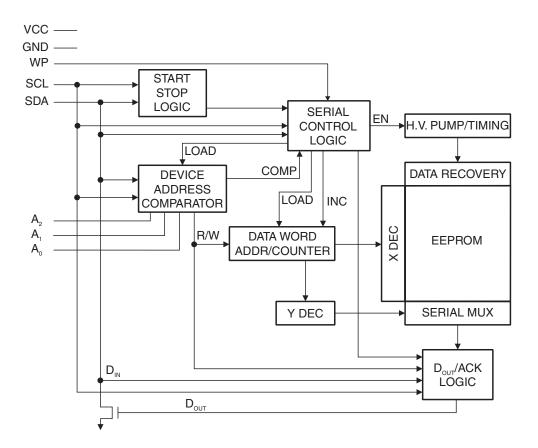
1. Absolute Maximum Ratings*

Operating Temperature	–55°C to +125°C
Storage Temperature	–65°C to +150°C
Voltage on Any Pin with Respect to Ground	1.0V to +7.0V
Maximum Operating Voltage	6.25V
DC Output Current	5.0 mA

*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.

² AT24C1024B

Figure 1-1. Block Diagram



2. 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 bi-directional for serial data transfer. This pin is opendrain driven and may be wire-ORed with any number of other open-drain or open-collector devices.

DEVICE/ADDRESSES (A1/A2): The A1, A2 pin is a device address input that can be hardwired or left not connected for hardware compatibility with other AT24Cxx devices. When the A1, A2 pins are hardwired, as many as four 1024K devices may be addressed on a single bus system (device addressing is discussed in detail under the Device Addressing section). If the A1/A2 pins are left floating, the A1/A2 pin will be internally pulled down to GND if the capacitive coupling to the circuit board V_{CC} plane is <3 pF. If coupling is >3 pF, Atmel recommends connecting the A1/A2 pin to GND.

WRITE PROTECT (WP): The write protect input, when connected to GND, allows normal write operations. When WP is connected high to V_{CC} , all write operations to the memory are inhibited. If the pin is left floating, the WP pin will be internally pulled down to GND if the capacitive coupling to the circuit board V_{CC} plane is <3 pF. If coupling is >3 pF, Atmel recommends connecting the pin to GND. Switching WP to V_{CC} prior to a write operation creates a software write-protect function.





3. Memory Organization

AT24C1024B, 1024K SERIAL EEPROM: The 1024K is internally organized as 512 pages of 256 bytes each. Random word addressing requires a 17-bit data word address.

Table 3-1.Pin Capacitance⁽¹⁾

Applicable over recommended operating range from $T_A = 25^{\circ}C$, f = 1.0 MHz, $V_{CC} = +1.8V$

Symbol	Test Condition	Max	Units	Conditions
C _{I/O}	Input/Output Capacitance (SDA)	8	pF	$V_{I/O} = 0V$
C _{IN}	Input Capacitance (A1, SCL)	6	pF	$V_{IN} = 0V$

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

Table 3-2.DC Characteristics

Applicable over recommended operating range from: $T_{AI} = -40^{\circ}C$ to $+85^{\circ}C$, $V_{CC} = +1.8V$ to +5.5V (unless otherwise noted)

Symbol	Parameter	Test Condition		Min	Тур	Max	Units
V _{CC1}	Supply Voltage			1.8		3.6	V
V _{CC2}	Supply Voltage			2.5		5.5	V
I _{cc}	Supply Current	$V_{\rm CC} = 5.0 V$	READ at 400 kHz			2.0	mA
I _{cc}	Supply Current	$V_{\rm CC} = 5.0 V$	WRITE at 400 kHz			3.0	mA
	Ohana dha a Ohana ant	$V_{\rm CC} = 1.8V$				1.0	μA
I _{SB1} Standby Current		$V_{\rm CC} = 3.6 V$	$V_{\rm IN} = V_{\rm CC} \text{ or } V_{\rm SS}$			3.0	μA
	0, , ,	$V_{\rm CC} = 2.5 V$				2.0	μA
I _{SB2}	Standby Current	$V_{\rm CC} = 5.5 V$	$V_{IN} = V_{CC} \text{ or } V_{SS}$			6.0	μA
ILI	Input Leakage Current	$V_{IN} = V_{CC} \text{ or } V_{SS}$	3		0.10	3.0	μA
I _{LO}	Output Leakage Current	$V_{OUT} = V_{CC} \text{ or } V$	$V_{OUT} = V_{CC} \text{ or } V_{SS}$		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} + 0.5	V
V _{OL1}	Output Low Level	$V_{\rm CC} = 1.8V$	V _{CC} = 1.8V I _{OL} = 0.15 mA			0.2	V
V _{OL2}	Output Low Level	$V_{CC} = 3.0V$				0.4	V

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

Table 3-3. AC Characteristics (Industrial Temperature)

Applicable over recommended operating range from $T_{AI} = -40^{\circ}C$ to $+85^{\circ}C$, $V_{CC} = +1.8V$ to +3.6V, CL = 100 pF (unless otherwise noted). Test conditions are listed in Note 2.

		1	1.8-volt		2.5, 5.0-volt	
Symbol	Parameter	Min	Max	Min	Max	Units
f _{SCL}	Clock Frequency, SCL		400		1000	kHz
t _{LOW}	Clock Pulse Width Low	1.3		0.4		μs
t _{HIGH}	Clock Pulse Width High	0.6		0.4		μs

Table 3-3. AC Characteristics (Industrial Temperature)

Applicable over recommended operating range from $T_{AI} = -40^{\circ}C$ to $+85^{\circ}C$, $V_{CC} = +1.8V$ to +3.6V, CL = 100 pF (unless otherwise noted). Test conditions are listed in Note 2.

		1.	8-volt	2.5,	5.0-volt	
Symbol	Parameter	Min	Max	Min	Max	Units
t _i	Noise Suppression Time ⁽¹⁾		100		50	ns
t _{AA}	Clock Low to Data Out Valid	0.05	0.9	0.05	0.55	μs
t _{BUF}	Time the bus must be free before a new transmission can start ⁽¹⁾	1.3		0.5		μs
t _{HD.STA}	Start Hold Time	0.6		0.25		μs
t _{SU.STA}	Start Set-up Time	0.6		0.25		μs
t _{HD.DAT}	Data In Hold Time	0		0		μs
t _{SU.DAT}	Data In Set-up 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 Set-up Time	0.6		0.25		μs
t _{DH}	Data Out Hold Time	50		50		ns
t _{WR}	Write Cycle Time		5		5	ms
Endurance ⁽¹⁾	25°C, Page Mode, 3.3V		1,000,000		Write Cycles	

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

2. AC measurement conditions:

 $\begin{array}{l} \mathsf{R}_{\mathsf{L}} \mbox{ (connects to V_{CC}): $1.3 k\Omega$ (2.5V, 5V), $10 k\Omega$ (1.8V) Input pulse voltages: $0.3 V_{CC} to $0.7 V_{CC} Input rise and fall times: $\leq 50 ns Input and output timing reference voltages: $0.5 V_{CC} to $1.5 V_{CC} for $1.5 V_{CC} to $1.5 V_{CC} for $1.5 V_{CC} to $1.5 V_{CC} for $1.5 V_{CC

4. 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 4-4 on page 7). Data changes during SCL high periods will indicate a start or stop condition as defined below.





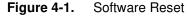
START CONDITION: A high-to-low transition of SDA with SCL high is a start condition which must precede any other command (see Figure 4-5 on page 8).

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 4-5 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 during the ninth clock cycle to acknowledge that it has received each word.

STANDBY MODE: The AT24C1024B 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.

SOFTWARE RESET: After an interruption in protocol, power loss or system reset, any 2-wire part can be protocol reset by following these steps: (a) Create a start bit condition, (b) clock 9 cycles, (c) create another start bit followed by stop bit condition as shown below. The device is ready for next communication after above steps have been completed.



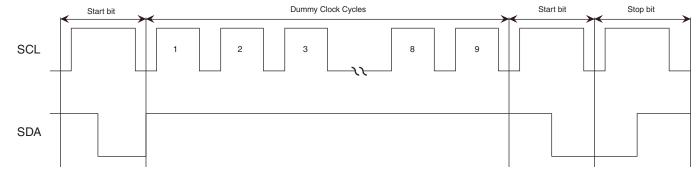
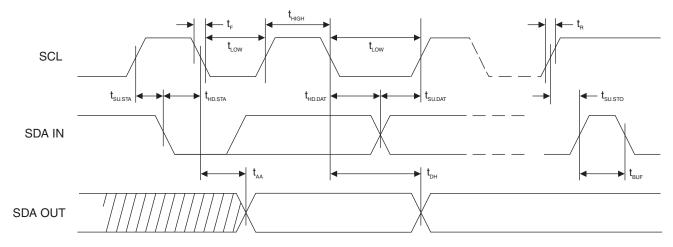
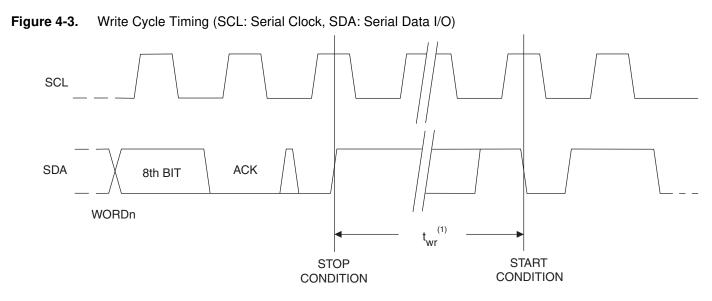


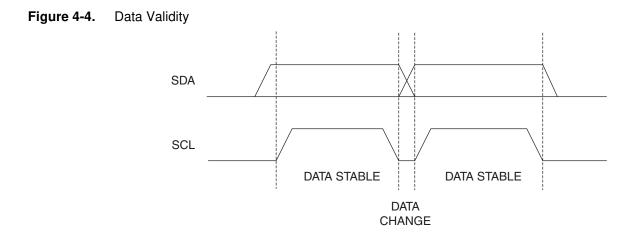
Figure 4-2. Bus Timing (SCL: Serial Clock, SDA: Serial Data I/O[®])



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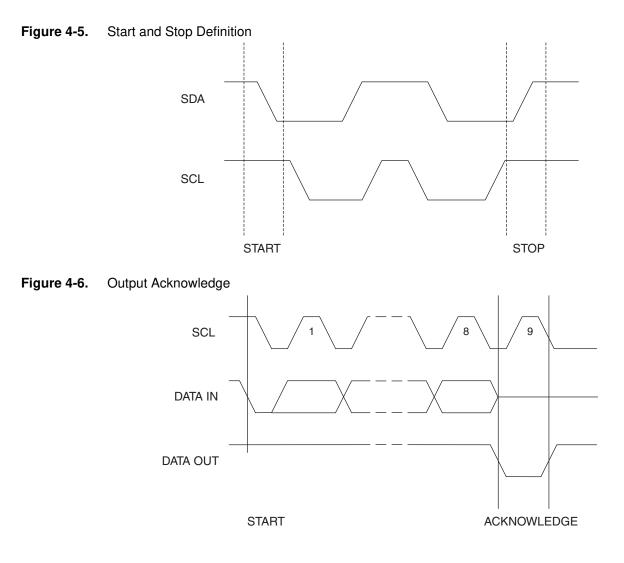


Note: 1. The write cycle time t_{WR} is the time from a valid stop condition of a write sequence to the end of the internal clear/write cycle.









5. Device Addressing

The 1024K EEPROM requires an 8-bit device address word following a start condition to enable the chip for a read or write operation (see Figure 7-1 on page 11). The device address word consists of a mandatory one, zero sequence for the first four most significant bits as shown. This is common to all two-wire EEPROM devices.

The 1024K uses the two device address bit, A1, A2, to allow up to four devices on the same bus. These A1, A2 bits must compare to the corresponding hardwired input pins. The A1, A2 pin uses an internal proprietary circuit that biases it to a logic low condition if the pin is allowed to float.

The seventh bit (P_0) of the device address is a memory page address bit. This memory page address bit is the most significant bit of the data word address that follows. 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 zero. If a compare is not made, the device will return to a standby state.

DATA SECURITY: The AT24C1024B has a hardware data protection scheme that allows the user to write-protect the entire memory when the WP pin is at V_{CC} .

6. Write Operations

BYTE WRITE: To select a data word in the 1024K memory requires a 17-bit word address. The word address field consists of the P_0 bit of the device address, then the most significant word address followed by the least significant word address (see Figure 7-2 on page 11)

A write operation requires the P_0 bit and two 8-bit data word addresses 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. The addressing device, such as a microcontroller, then 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 7-2 on page 11).

PAGE WRITE: The 1024K EEPROM is capable of 256-byte page writes.

A page write is initiated the same way 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 255 more 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 7-3 on page 11).

The data word address lower 8 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 256 data words are transmitted to the EEPROM, the data word address will "roll over" and previous data will be overwritten. The address "rollover" during write is from the last byte of the current page to the first byte of the same page.

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.

7. 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 and 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 "rollover" during read is from the last byte of the last memory page, to the first byte of the first 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 input zero but does generate a following stop condition (see Figure 7-4 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 7-5 on page 12).

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 7-6 on page 12).

AT24C1024B

Figure 7-1. Device Address

1	0	1	0	A_2	Α ₁	P ₀	R/W
MSB							LSB

Figure 7-2. Byte Write

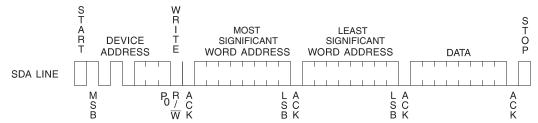


Figure 7-3. Page Write

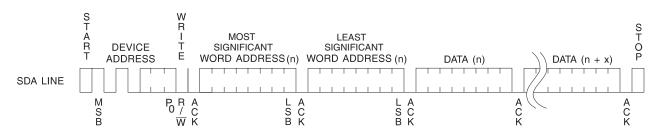


Figure 7-4. Current Address Read

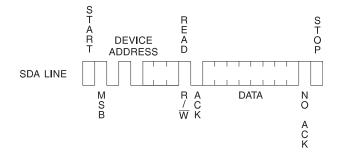
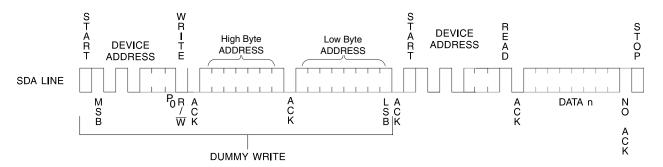
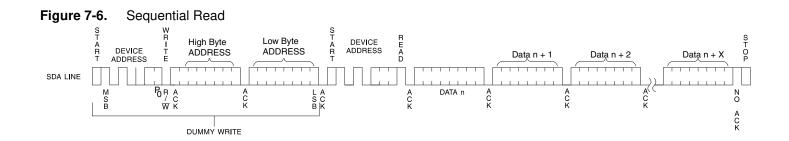






Figure 7-5. Random Read





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AT24C1024B

Ordering Information

Ordering Code	Voltage	Package	Operation Range
AT24C1024B-PU (Bulk form only)	1.8	8P3	
AT24C1024B-PU25 (Bulk form only)	2.5	8P3	
AT24C1024BN-SH-B ⁽¹⁾ (NiPdAu Lead Finish)	1.8	8S1	
AT24C1024BN-SH-T ⁽²⁾ (NiPdAu Lead Finish)	1.8	8S1	
AT24C1024BN-SH25-B ⁽¹⁾ (NiPdAu Lead Finish)	2.5	8S1	
AT24C1024BN-SH25-T ⁽²⁾ (NiPdAu Lead Finish)	2.5	8S1	
AT24C1024BW-SH-B ⁽¹⁾ (NiPdAu Lead Finish)	1.8	8S2	
AT24C1024BW-SH-T ⁽²⁾ (NiPdAu Lead Finish)	1.8	8S2	Lead-free/Halogen-free/
AT24C1024BW-SH25-B ⁽¹⁾ (NiPdAu Lead Finish)	2.5	8S2	Industrial Temperature (-40°C to 85°C)
AT24C1024BW-SH25-T ⁽²⁾ (NiPdAu Lead Finish)	2.5	8S2	(+0 0 10 00 0)
AT24C1024B-TH-B ⁽¹⁾ (NiPdAu Lead Finish)	1.8	8A2	
AT24C1024B-TH-T ⁽²⁾ (NiPdAu Lead Finish)	1.8	8A2	
AT24C1024B-TH25-B ⁽¹⁾ (NiPdAu Lead Finish)	2.5	8A2	
AT24C1024B-TH25-T ⁽²⁾ (NiPdAu Lead Finish)	2.5	8A2	
AT24C1024BY7-YH-T ⁽²⁾ (NiPdAu Lead Finish)	1.8	8Y7	
AT24C1024BY7-YH25-T ⁽²⁾ (NiPdAu Lead Finish)	2.5	8Y7	
AT24C1024BU4-UU-T ⁽²⁾	1.8	8U4-1	
AT24C1024B-W-11 ⁽³⁾	1.8	Die Sale	Industrial Temperature (-40°C to 85°C)

Notes: 1. "-B" denotes bulk

2. "-T" denotes tape and reel. SOIC = 4K per reel. TSSOP and dBGA2 = 5K per reel. SAP = 3K per reel. EIAJ = 2K per reel.

3. Available in tape and reel and wafer form; order as SL788 for inkless wafer form. Bumped die available upon request. Please contact Serial Interface Marketing.

	Package Type					
8P3	8-lead, 0.300" Wide, Plastic Dual In-line Package (PDIP)					
8S1 8-lead, 0.150" Wide, Plastic Gull Wing Small Outline Package (JEDEC SOIC)						
8S2	8-lead, 0.200" Wide Plastic Gull Wing Small Outline Package (EIAJ SOIC)					
8A2	8A2 8-lead, 4.4 mm Body, Plastic Thin Shrink Small Outline Package (TSSOP)					
8Y7 8-lead, 6.00 mm x 4.90 mm Body, Ultra Thin, Dual Footprint, Non-leaded, Small Array Package (SAP)						
8U4-1	8-ball, die Ball Grid Array Package (dBGA2)					
	Options					
-1.8	Low-voltage (1.8V to 3.6V)					
-2.5	Low-voltage (2.5V to 5.5V)					





Y = 6: 7: 8: 9:

Part marking scheme 8.

8-SOIC(1.8V) 8.1

TOP MARK Seal Year
Seal Week
A T M L H Y W W
2 G B 1
* Lot Number
Pin 1 Indicator (Dot)

SEAL	YEAR		WW = SEAL WEEK	
2006	0:	2010	02 = Week 2	
2007	1:	2011	04 = Week 4	
2008	2:	2012	:: : :::: :	
2009	3:	2013	:: : :::: ::	
			50 = Week 50	
			52 = Week 52	

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

Y

No Bottom Mark

8-SOIC(2.5V) 8.2

TOP MARK Seal Year Seal Week |---|---|---|---|---| A T M L H Y W W |---|---|---|---|---| 2 G B 2 |---|---|---|---| * Lot Number |---|---|---|---|---| Pin 1 Indicator (Dot)

Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

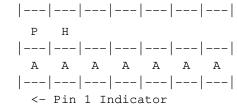
8.3 8-TSSOP(1.8V)

TOP MARK

Pir	n 1]	Indio	cator	(Dot)
*	Н	Y	W	W
2	G	В		1

Y =	SEAL	YEAR		WW =	= 5	SEAL V	VEEK
6:	2006	0:	2010	02	=	Week	2
7:	2007	1:	2011	04	=	Week	4
8:	2008	2:	2012	::	:	::::	:
9:	2009	3:	2013	::	:	::::	::
				50	=	Week	50
				52	=	Week	52

BOTTOM MARK



8.4 8-TSSOP(2.5V)

TOP MARK

Pin 1 Indicator (Dot)

Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

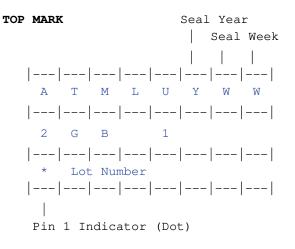
BOTTOM MARK

P	Н					
А	A	A	A	А	А	A
<-	Pin	1 Ir	ndica	ator		





8.5 8-PDIP(1.8V)



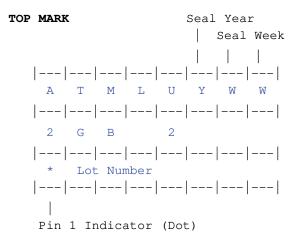
Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

8.6 8-PDIP(2.5V)



Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

8.7 8-Ultra Thin SAP (1.8V)

TOP MARK	Seal Year		
	Seal Week	Y = SEAL YEAR	WW = SEAL WEEK
		6: 2006 0: 2010	02 = Week 2
		7: 2007 1: 2011	04 = Week 4
A T M L	H Y W W	8: 2008 2: 2012	:: : :::: :
		9: 2009 3: 2013	:: : :::: ::
2 G B	1		50 = Week 50
			52 = Week 52
Lot Number			
*			
1			

Pin 1 Indicator (Dot)

8.8 8-Ultra Thin SAP (2.5V)

TOP	TOP MARK				:	Seal	Yea	r
							Seal	Week
	А	т	М	L	Η	Y	W	W
	2	G	В		2			
	Lot	Nun	lber					
	*							
	Pin	1 In	ldica	ator	(Dot	:)		

Y =	SEAL	YEAR		WW = SEAL WEEK
6:	2006	0:	2010	02 = Week 2
7:	2007	1:	2011	04 = Week 4
8:	2008	2:	2012	:: : :::: :
9:	2009	3:	2013	:: : :::: ::
				50 = Week 50
				52 = Week 52

8.9 dBGA2

TOP MARK	
	2GBU PYMTC < Pin 1 This Corner
<pre>P = COUNTRY OF ORIGIN Y = ONE DIGIT YEAR COU 4: 2004 7: 2007 5: 2005 8: 2008 6: 2006 9: 2009 M = SEAL MONTH (USE AN A = JANUARY B = FEBRUARY " " " " " " " " " " " J = OCTOBER K = NOVEMBER L = DECEMBER</pre>	_

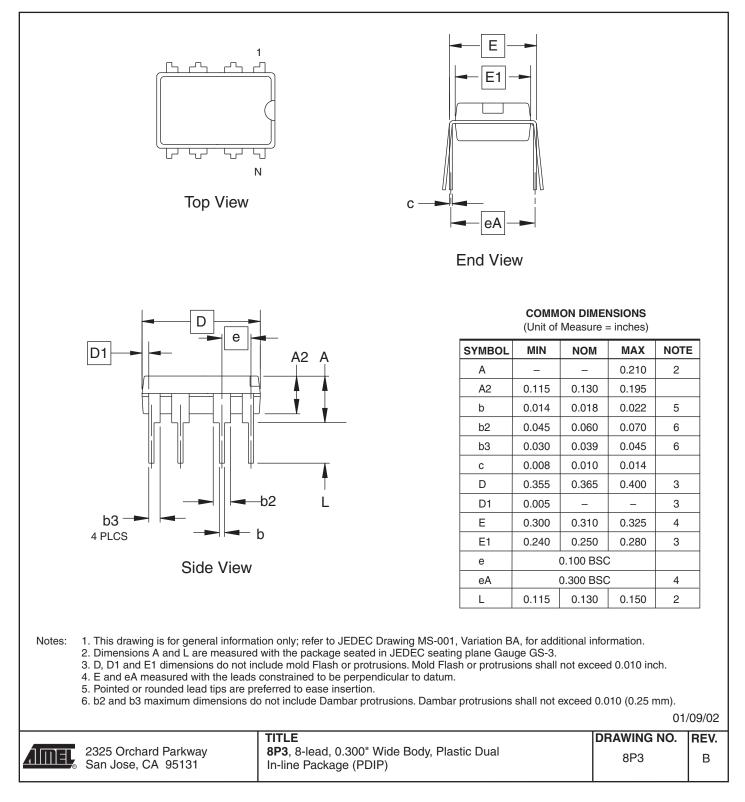
TC = TRACE CODE (ATMEL LOT NUMBERS TO CORRESPOND WITH ATK TRACE CODE LOG BOOK)





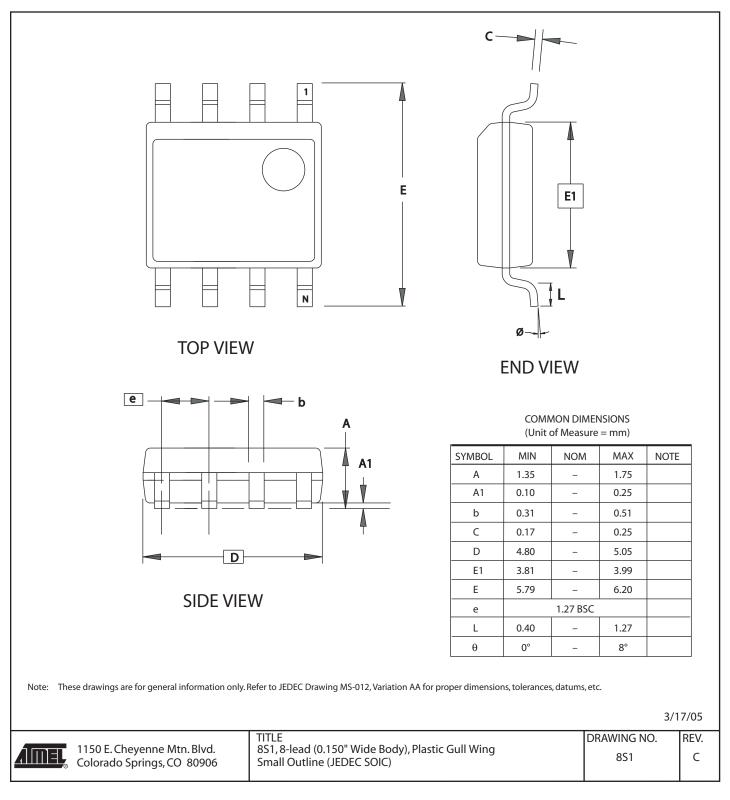
9. Packaging Information

8P3 – PDIP



AT24C1024B

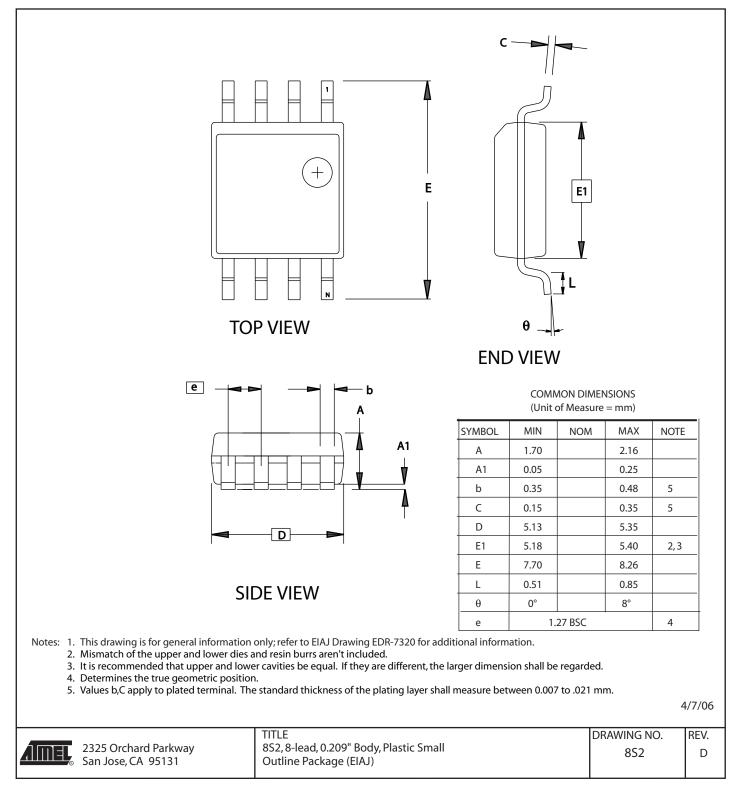
8S1 - JEDEC SOIC



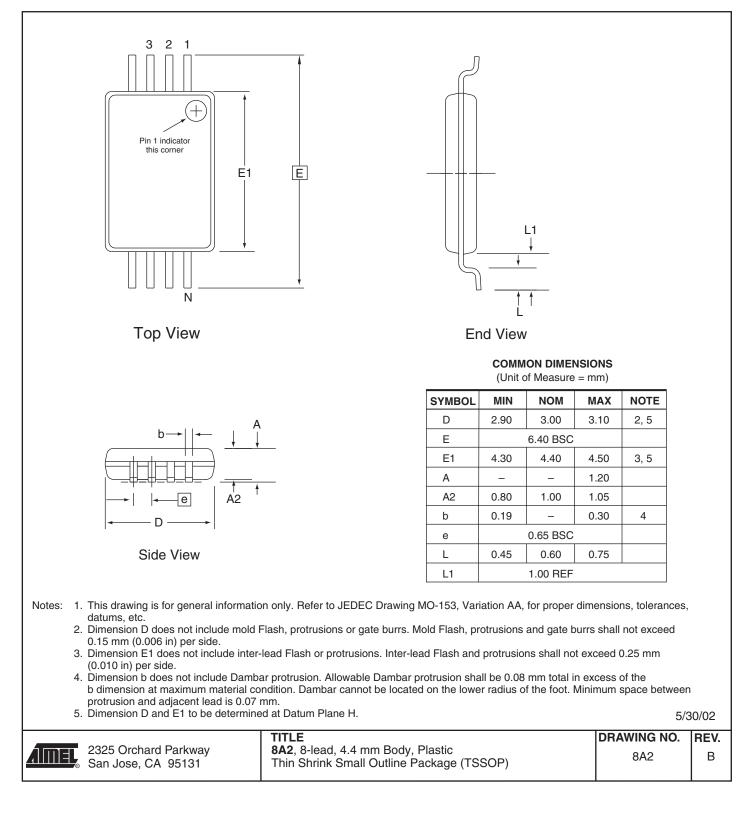




8S2 – EIAJ SOIC



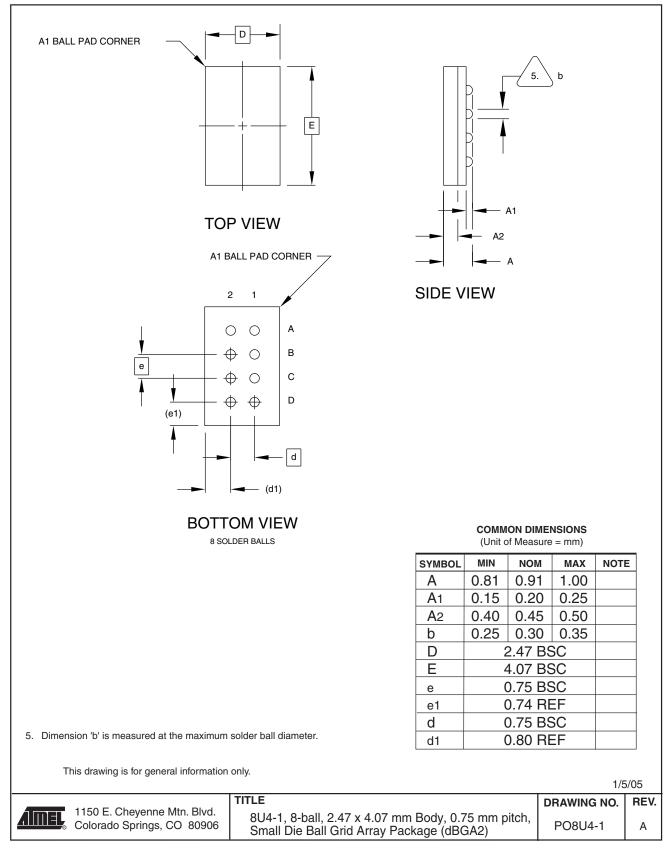
8A2 - TSSOP







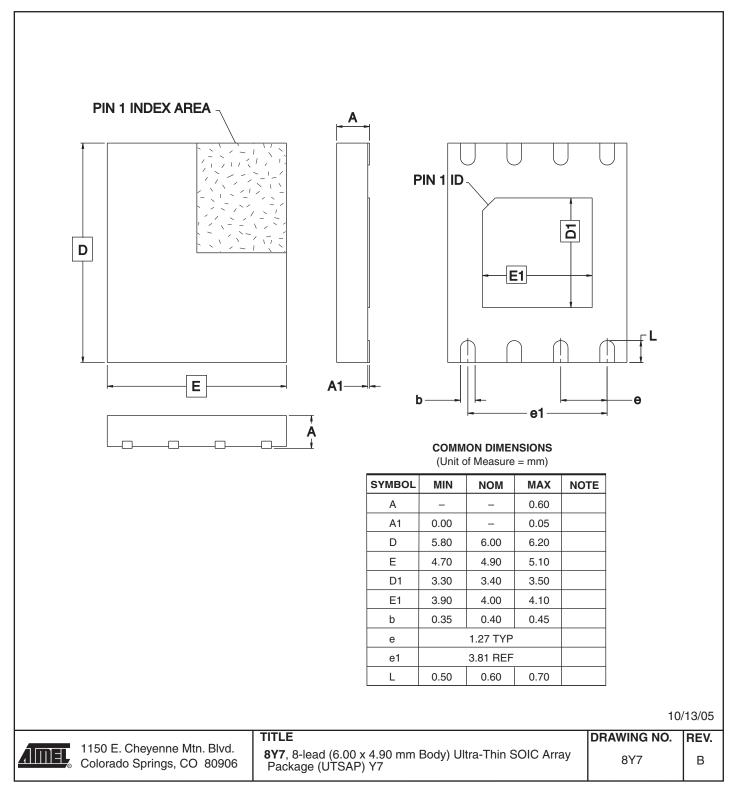
8U4-1 - dBGA2



AT24C1024B

AT24C1024B

8Y7 – SAP







10. Revision History

Doc. No.	Date	Comments
5194F	1/2008	Removed 'NiPdAu' from AT24C1024BU4-UU-T ⁽²⁾ Removed 'Preliminary' status
5194E	8/2007	Updated Part Marking Scheme Updated to new Template Updated to common figures Added Package Marking tables
5194D	5/2007	Changed 'Advance Information' to 'Preliminary'
5194C	4/2007	Reduced Pin Configuration sizes Changed Maximum Operating Voltage from 6.0 to 6.25 Removed Device Power Up & Power Down Recommendation Added A2 bit to Device Addressing Removed LSB from Figure 10 Current Address Read Removed reference to Waffle Pack Modified Ordering Code table lines Global change on Voltage from 3.6 to 5.5, Correct pg 1 drawings to include address inputs
5194B	2/2007	Correct pg 1 TSSOP drawing
5194A	1/2007	Initial Document Release



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