
I²C-Compatible (2-Wire) Serial EEPROM
128-Kbit (16,384 x 8)

DATASHEET

Features

- Low-voltage and standard-voltage operation
 - $V_{CC} = 1.7V$ to $5.5V$
- Internally organized as 16,384 x 8
- 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 protection
- 64-byte page write mode
 - Partial page writes allowed
- Self-timed write cycle (5ms max)
- High reliability
 - Endurance: 1,000,000 write cycles
 - Data retention: 40 years
- Lead-free/Halogen-free devices available
- Green package options (Pb/Halide-free/RoHS compliant)
 - 8-lead JEDEC SOIC, 8-lead TSSOP, 8-pad UDFN, 8-pad XDFN, and 8-ball VFBGA packages
- Die sale options: wafer form, waaffle pack, and bumped wafers

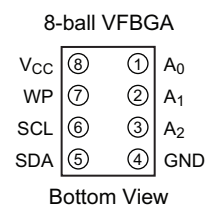
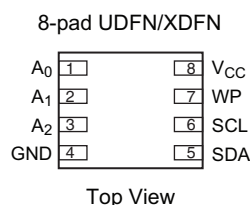
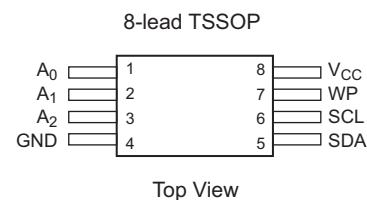
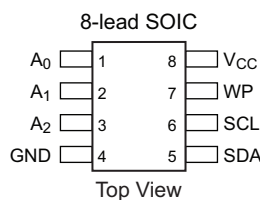
Description

The Atmel® AT24C128C provides 131,072-bits of Serial Electrically Erasable and Programmable Read-Only Memory (EEPROM) organized as 16,384 words of eight bits each. The device's cascading feature allows up to eight devices to share a common 2-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 JEDEC SOIC, 8-lead TSSOP, 8-pad UDFN, 8-pad XDFN, and 8-ball VFBGA packages. In addition, this device operates from 1.7V to 5.5V.

1. Pin Configurations and Pinouts

Table 1-1. Pin Configuration

Pin	Function
A ₀	Address Input
A ₁	Address Input
A ₂	Address Input
GND	Ground
SDA	Serial Data
SCL	Serial Clock Input
WP	Write Protect
V _{CC}	Device Power Supply

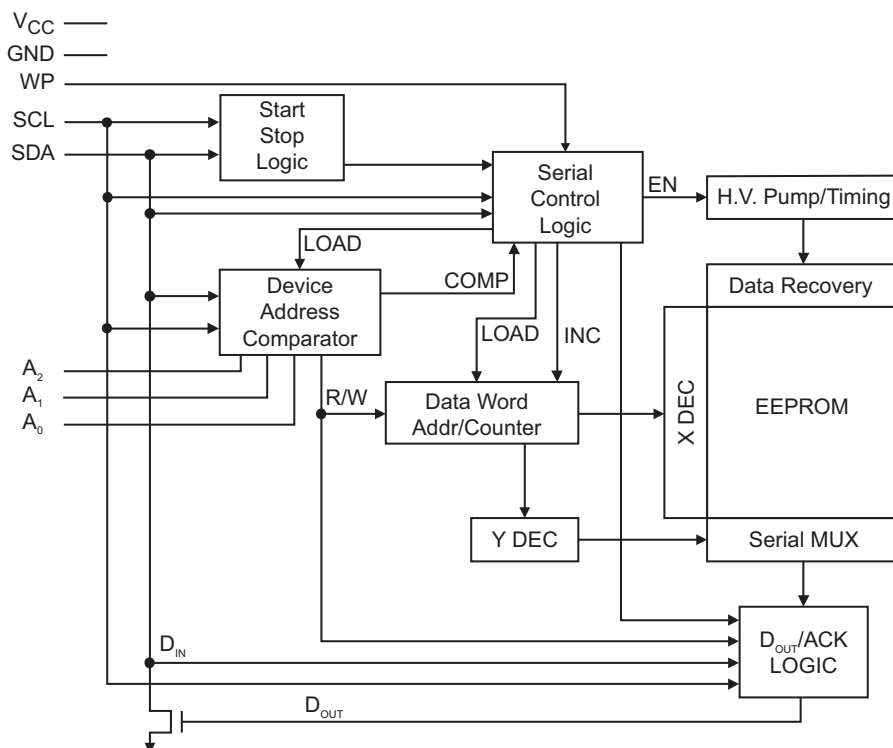


2. Absolute Maximum Ratings*

Operating Temperature -55°C to +125°C
Storage Temperature -65°C to + 150°C
Voltage on any pin
with respect to ground - 1.0 V +7.0V
Maximum Operating Voltage 6.25V
DC Output Current 5.0mA

*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 are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

3. Block Diagram



4. Pin Descriptions

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 Addresses (A_2 , A_1 , A_0): The A_2 , A_1 , and A_0 pins are device address inputs that are hard wired (directly to GND or to V_{CC}) for compatibility with other Atmel AT24C devices. When the pins are hard wired, as many as eight 128K devices may be addressed on a single bus system. (Device addressing is discussed in detail in [Section 7. "Device Addressing" on page 9](#)). A device is selected when a corresponding hardware and software match is true. If these pins are left floating, the A_2 , A_1 , and A_0 pins will be internally pulled down to GND. However, due to capacitive coupling that may appear during customer applications, Atmel recommends always connecting the address pins to a known state. When using a pull-up resistor, Atmel recommends using 10k Ω or less.

Write Protect (WP): The Write Protect input, when connected to GND, allows normal write operations. When WP is connected directly 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. However, due to capacitive coupling that may appear during customer applications, Atmel recommends always connecting the WP pins to a known state. When using a pull-up resistor, Atmel recommends using 10k Ω or less.

Table 4-1. Write Protect

WP Pin Status	Part of the Array Protected
	Atmel AT24C128C
At V_{CC}	Full Array
At GND	Normal Read/Write Operations

5. Memory Organization

Atmel AT24C128C, 128K Serial EEPROM: The 128K is internally organized as 256 pages of 64-bytes each. Random word addressing requires a 14-bit data word address.

Table 5-1. Pin Capacitance⁽¹⁾

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

Symbol	Test Condition	Max	Units	Conditions
$C_{I/O}$	Input/Output Capacitance (SDA)	8	pF	$V_{I/O} = 0\text{V}$
C_{IN}	Input Capacitance (A_0 , A_1 , A_2 , and SCL)	6	pF	$V_{IN} = 0\text{V}$

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

Table 5-2. DC Characteristics

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

Symbol	Parameter	Test Condition		Min	Typ	Max	Units
V _{CC1}	Supply Voltage			1.7		5.5	V
I _{CC1}	Supply Current	V _{CC} = 5.0V	Read at 400kHz		1.0	2.0	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
		V _{CC} = 5.0V				6.0	μA
I _{LI}	Input Leakage Current V _{CC} = 5.0V	V _{IN} = V _{CC} or V _{SS}			0.10	3.0	μA
I _{LO}	Output Leakage Current V _{CC} = 5.0V	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 (Industrial Temperature)

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

Symbol	Parameter	1.7V		2.5V, 5.0V		Units
		Min	Max	Min	Max	
f_{SCL}	Clock Frequency, SCL		400		1000	kHz
t_{LOW}	Clock Pulse Width Low	1300		400		ns
t_{HIGH}	Clock Pulse Width High	600		400		ns
t_I	Noise Suppression Time ⁽¹⁾		100		50	ns
t_{AA}	Clock Low to Data Out Valid	50	900	50	550	ns
t_{BUF}	Time the bus must be free before a new transmission can start ⁽¹⁾	1300		500		ns
$t_{HD,STA}$	Start Hold Time	600		250		ns
$t_{SU,STA}$	Start Set-up Time	600		250		ns
$t_{HD,DAT}$	Data In Hold Time	0		0		ns
$t_{SU,DAT}$	Data In Set-up Time	100		100		ns
t_R	Inputs Rise Time ⁽¹⁾		300		300	ns
t_F	Inputs Fall Time ⁽¹⁾		300		100	ns
$t_{SU,STO}$	Stop Set-up Time	600		250		ns
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 and is not 100% tested.

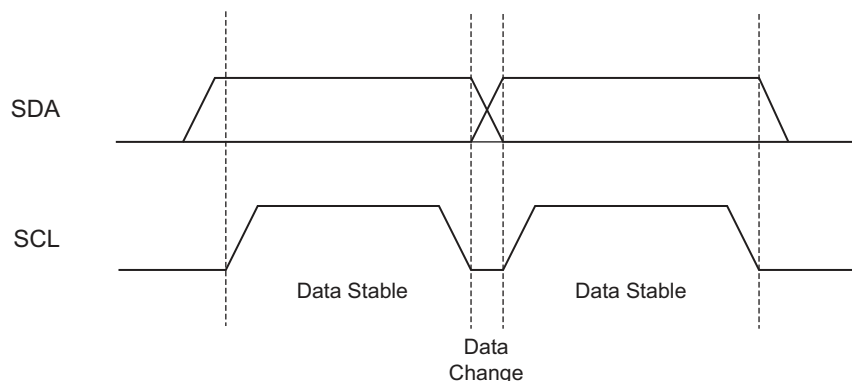
2. AC measurement conditions:

- R_L (connects to V_{CC}): 1.3k Ω (2.5V, 5.5V), 10k Ω (1.7V)
- Input pulse voltages: 0.3 V_{CC} to 0.7 V_{CC}
- Input rise and fall times: $\leq 50\text{ns}$
- Input and output timing reference voltages: 0.5 x V_{CC}

6. Device Operation

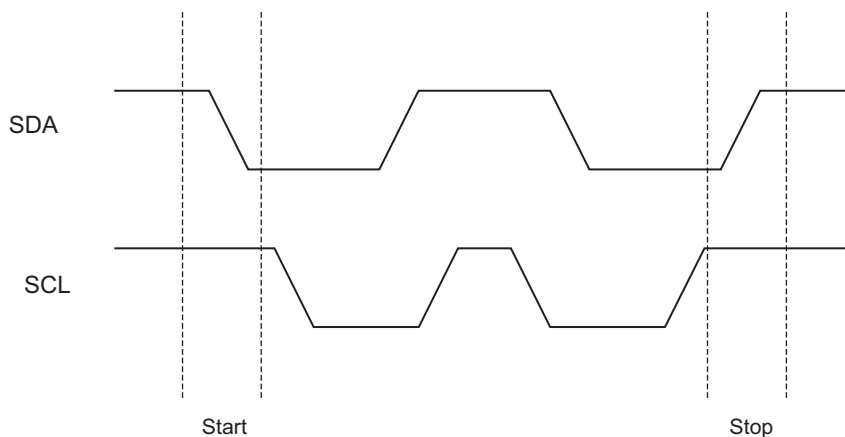
Clock and Data Transitions: The SDA pin is normally pulled high with an external device. Data on the SDA pin may change only during SCL low time periods (See [Figure 6-1](#)). Data changes during SCL high periods will indicate a start or stop condition as defined below.

Figure 6-1. Data Validity



Start Condition: A high-to-low transition of SDA with SCL high is a start condition that must precede any other command (See [Figure 6-2](#)).

Figure 6-2. Start and Stop Definition



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 6-2](#)).

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: AT24C128C features a low-power standby mode that is enabled upon power-up and 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:

1. Create a Start bit condition
2. Clock nine cycles
3. Create another Start bit followed by stop bit condition as shown below.

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

Figure 6-3. Software Reset

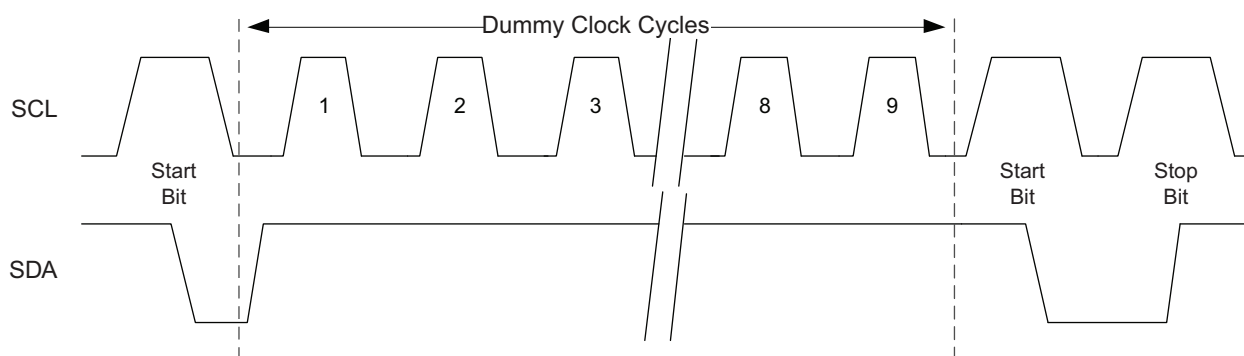


Figure 6-4. Bus Timing

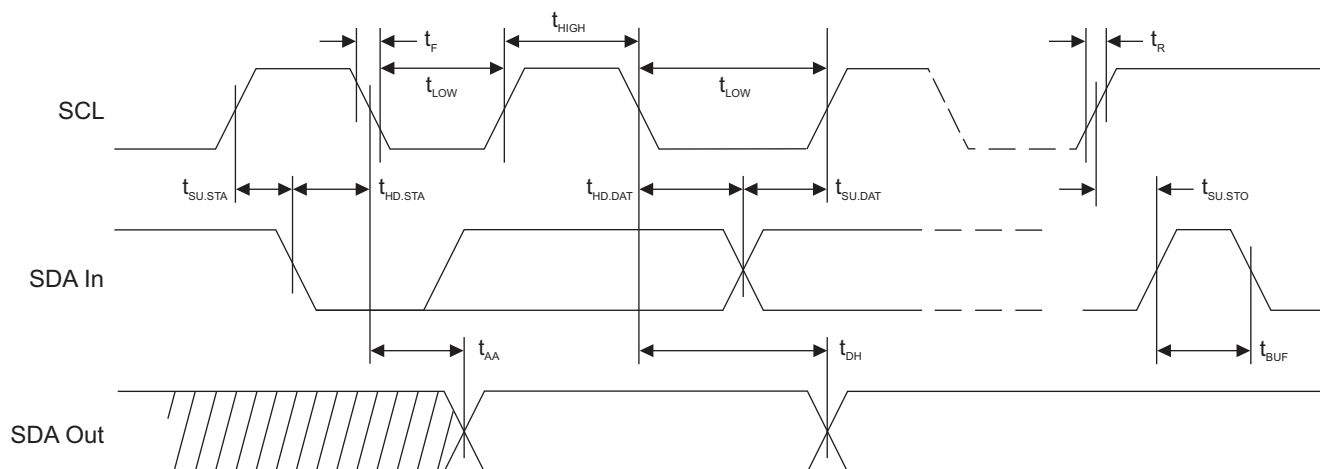
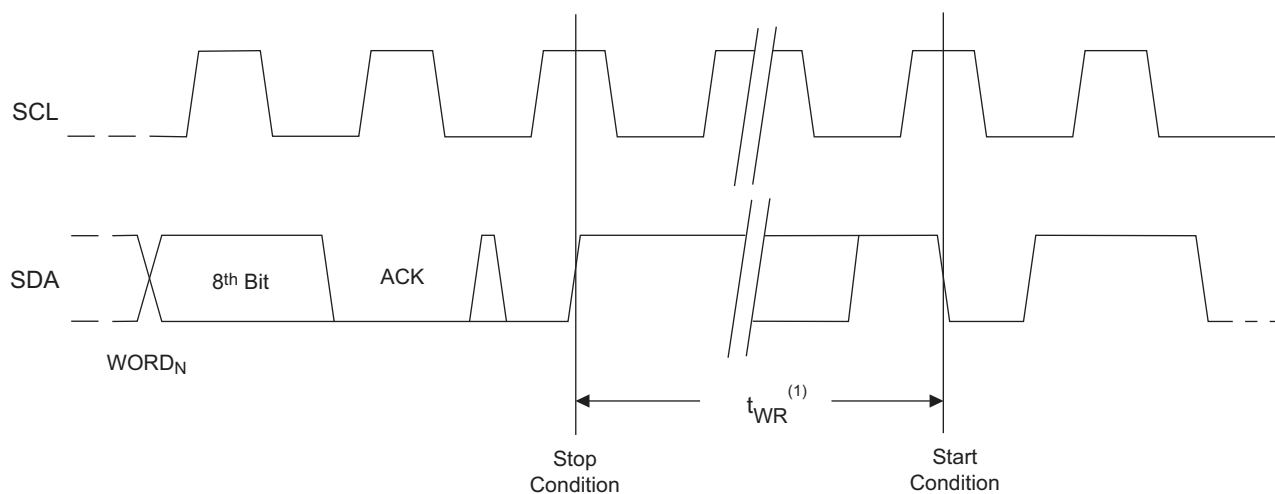
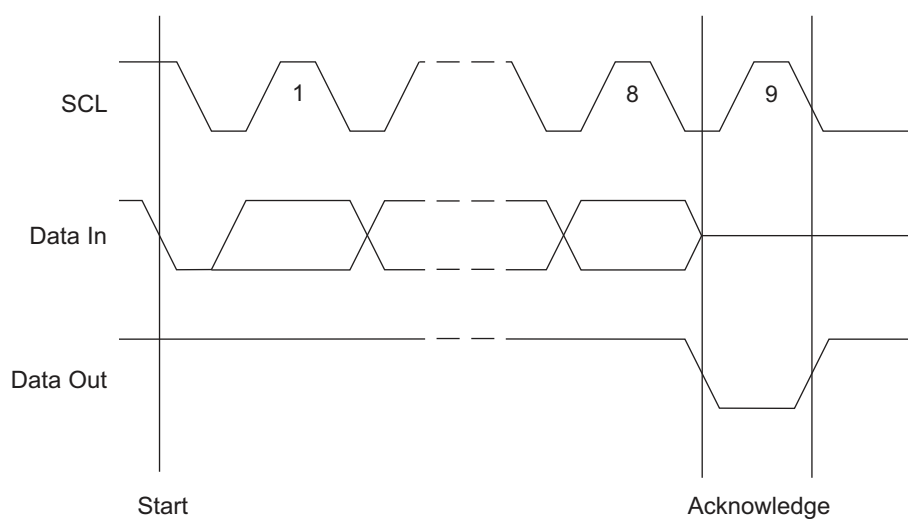


Figure 6-5. Write Cycle Timing



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.

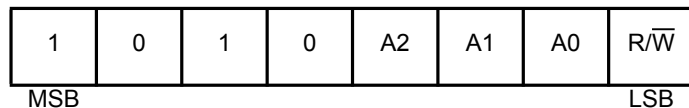
Figure 6-6. Output Acknowledge



7. Device Addressing

The 128K EEPROM requires an 8-bit device address word following a start condition to enable the chip for a read or write operation (Figure 7-1). 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 2-wire EEPROM devices.

Figure 7-1. Device Addressing



The next three bits are the A2, A1, and A0 device address bits to allow as many as eight devices on the same bus. These bits must compare to their corresponding hard wired input pins. The A₂, A₁, and A₀ pins use an internal proprietary circuit that biases them to a logic low condition if the pins are allowed to float.

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.

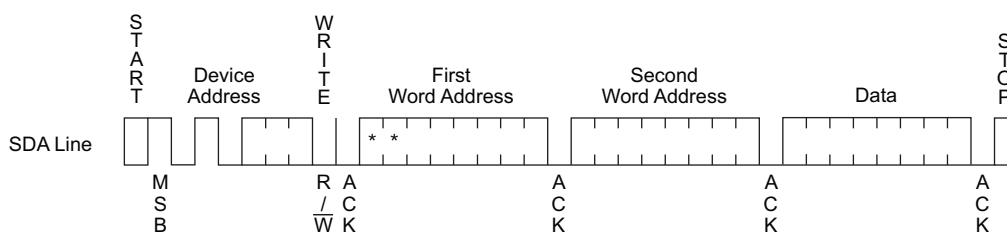
Upon a compare of the device address, the EEPROM will output a zero. If a compare is not made, the device will return to a standby state.

Data Security: AT24C128C has a hardware data protection scheme that allows the user to write protect the whole memory when the WP pin is at V_{CC}.

8. Write Operations

Byte Write: A write operation requires 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, must then 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 7-1).

Figure 8-1. Byte Write

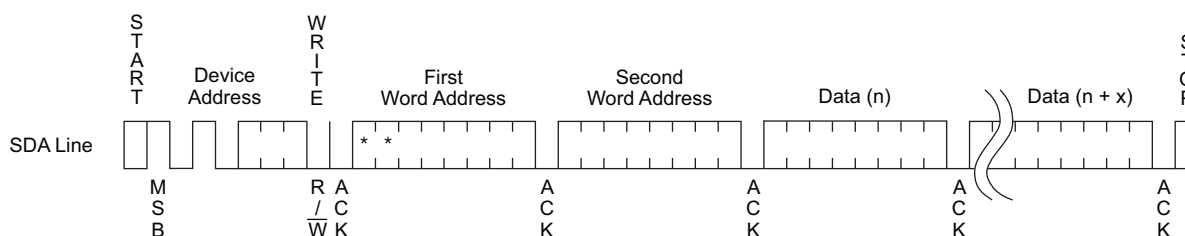


Note: * = Don't care bit

Page Write: The 128K EEPROM is capable of 64-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 63 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 8-2).

Figure 8-2. Page Write



Note: * = Don't care bit

The data word address lower six 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 64 data words are transmitted to the EEPROM, the data word address will roll-over and the previous data will be overwritten. The address roll-over 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.

9. Read Operations

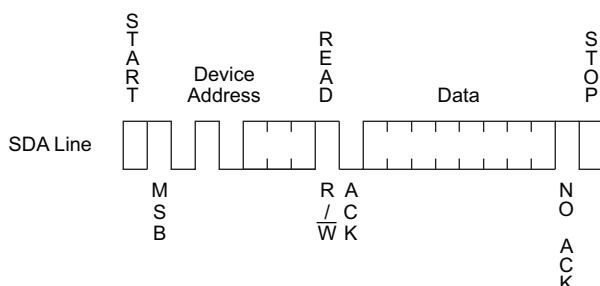
Read operations are initiated the same way as write operations with the exception that the read/write select bit in the device address word is set to one. There are three read operations:

- 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.

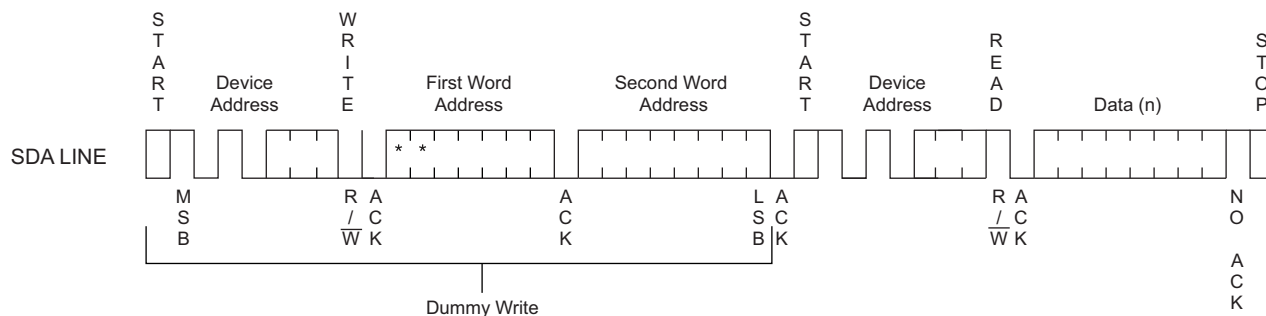
Once the device address with the read/write select bit set to one is clocked in and acknowledged by the EEPROM, the current address data word is serially clocked out. The microcontroller does not respond with an input zero but does generate a following stop condition (See Figure 9-1).

Figure 9-1. Current Address Read



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 9-2)

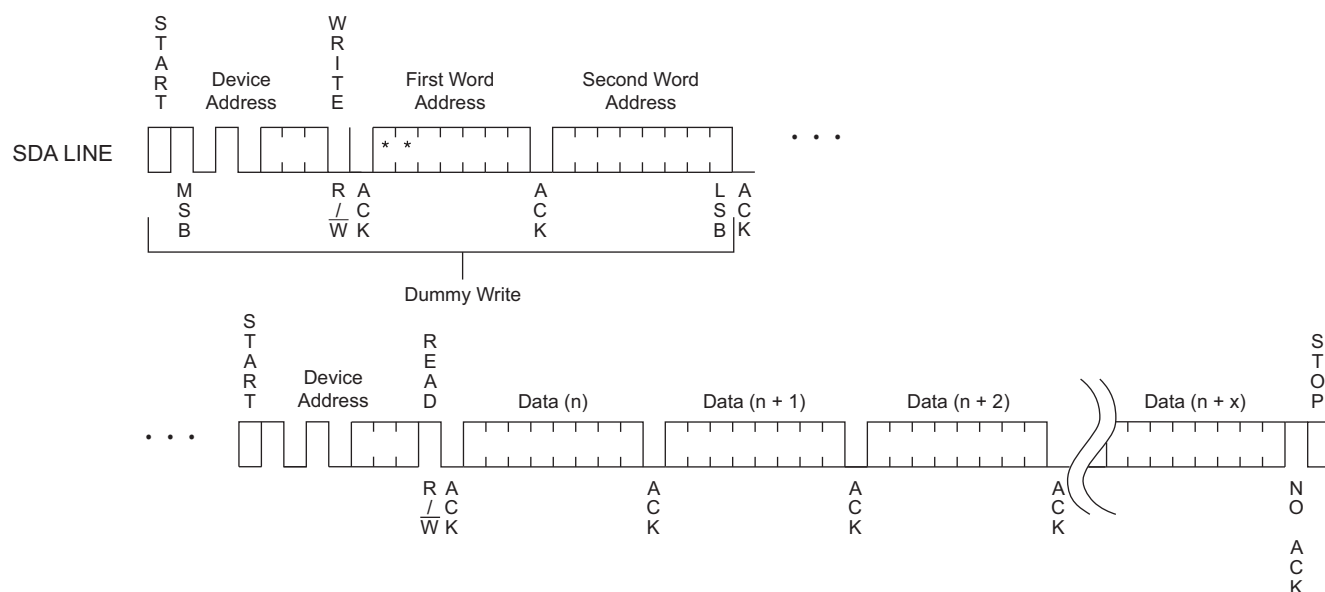
Figure 9-2. Random Read



Note: * = Don't care bit

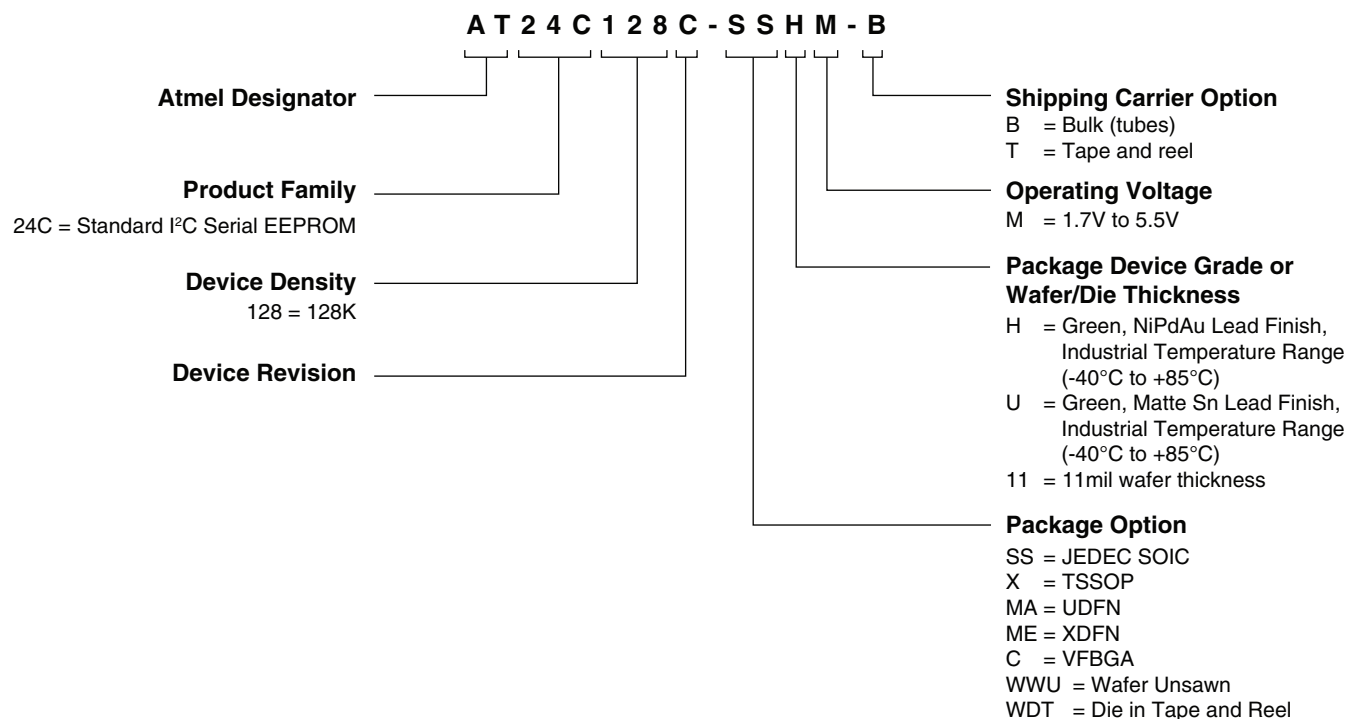
Sequential Read: Sequential Reads are initiated by either a Current Address Read or a Random Address Read. After the microcontroller receives a data word, it responds with an acknowledge. As long as the EEPROM receives an acknowledge, it will continue to increment the data word address and serially clock out sequential data words. When the memory address maximum address is reached, the data word address will roll-over and the Sequential Read will continue from the beginning of the array. The Sequential Read operation is terminated when the microcontroller does not respond with a zero but does generate a following stop condition (See [Figure 9-3](#)).

Figure 9-3. Sequential Read



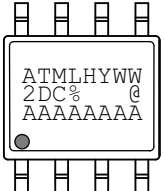




Note: * = Don't care bit

10. Ordering Code Detail



11. Part Markings

AT24C128C: Package Marking Information


8-lead SOIC 	8-lead TSSOP 	8-lead UDFN 2.0 x 3.0 mm Body 
8-ball VFBGA 2.35 x 3.73 mm Body 	8-lead XDFN 1.8 x 2.2 mm Body 	

Note 1: ● designates pin 1

Note 2: Package drawings are not to scale

Catalog Number Truncation			
AT24C128C		Truncation Code ###: 2DC	
Date Codes			Voltages
Y = Year	M = Month	WW = Work Week of Assembly	% = Minimum Voltage
2: 2012 6: 2016	A: January	02: Week 2	M: 1.7V min
3: 2013 7: 2017	B: February	04: Week 4	
4: 2014 8: 2018	
5: 2015 9: 2019	L: December	52: Week 52	
Country of Assembly		Lot Number	Grade/Lead Finish Material
@ = Country of Assembly		AAA...A = Atmel Wafer Lot Number	U: Industrial/Matte Tin H: Industrial/NiPdAu
Trace Code			Atmel Truncation
XX = Trace Code (Atmel Lot Numbers Correspond to Code) Example: AA, AB.... YZ, ZZ			AT: Atmel ATM: Atmel ATML: Atmel

9/19/12

 Package Mark Contact: DL-CSO-Assy_eng@atmel.com	TITLE 24C128CSM , AT24C128C Standard Package Marking Information	DRAWING NO. 24C128CSM	REV. D
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12. Ordering Codes

12.1 Atmel AT24C128C Ordering Information

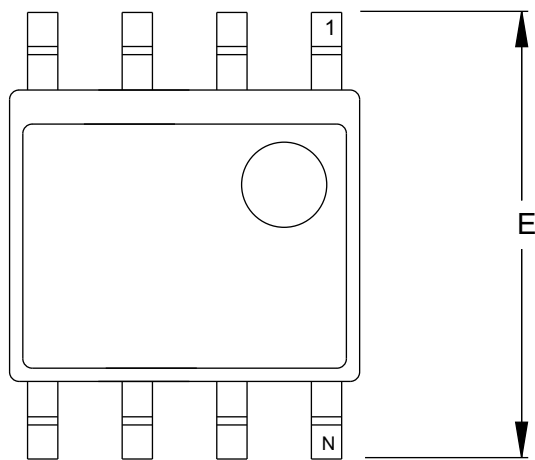
Ordering Code	Package	Voltage	Operating Range
AT24C128C-SSHM-B ⁽¹⁾	8S1	1.7V to 5.5V	Lead-free/Halogen-free Industrial Temperature (-40°C to 85°C)
AT24C128C-SSHM-T ⁽²⁾			
AT24C128C-XHM-B ⁽¹⁾	8X		
AT24C128C-XHM-T ⁽²⁾			
AT24C128C-MAHM-T ⁽²⁾	8MA2		
AT24C128C-MEHM-T ⁽²⁾	8ME1		
AT24C128C-CUM-T ⁽²⁾	8U2-1		
AT24C128C-WWU11M ⁽³⁾	Wafer Sale	1.7V to 5.5V	Industrial Temperature (-40°C to 85°C)

- Notes:
1. Bulk delivery in tubes:
 - SOIC and TSSOP = 100 per tube
 2. Tape and reel delivery:
 - SOIC = 4k per reel
 - TSSOP, UDFN, XDFN, and VFBGA = 5k per reel
 3. Contact Atmel Sales for Wafer sales.

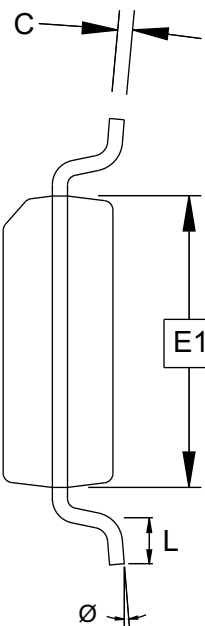
Package Type	
8S1	8-lead, 0.150" wide, Plastic Gull Wing Small Outline Package (JEDEC SOIC)
8X	8-lead, 4.40mm body, Plastic Thin Shrink Small Outline Package (TSSOP)
8MA2	8-pad, 2.00mm x 3.00mm body, 0.50mm pitch, Dual No Lead Package (UDFN)
8ME1	8-pad, 1.80mm x 2.20mm body, Extra Thin DFN Package (XDFN)
8U2-1	8-ball, Die Ball Grid Array Package (VFBGA)

13. Packaging Information

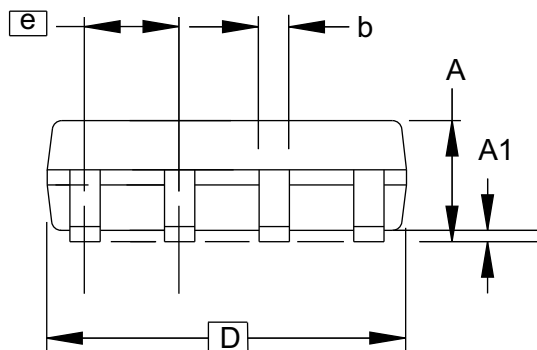
13.1 8S1 — 8-lead JEDEC SOIC



TOP VIEW



END VIEW



SIDE VIEW

Notes: This drawing is for general information only.
Refer to JEDEC Drawing MS-012, Variation AA
for proper dimensions, tolerances, datums, etc.

COMMON DIMENSIONS
(Unit of Measure = mm)

SYMBOL	MIN	NOM	MAX	NOTE
A	1.35	—	1.75	
A1	0.10	—	0.25	
b	0.31	—	0.51	
C	0.17	—	0.25	
D	4.80	—	5.05	
E1	3.81	—	3.99	
E	5.79	—	6.20	
e	1.27 BSC			
L	0.40	—	1.27	
Ø	0°	—	8°	

6/22/11

Atmel

Package Drawing Contact:
packagedrawings@atmel.com

TITLE

8S1, 8-lead (0.150" Wide Body), Plastic Gull Wing
Small Outline (JEDEC SOIC)

GPC

SWB

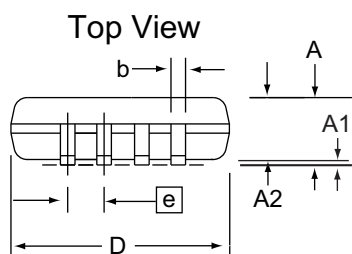
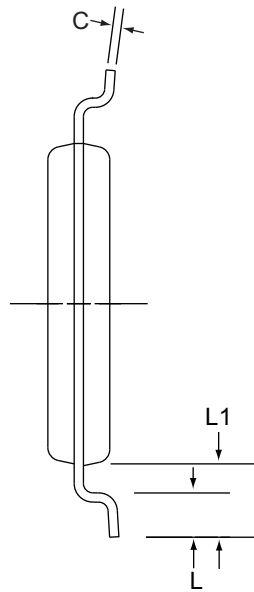
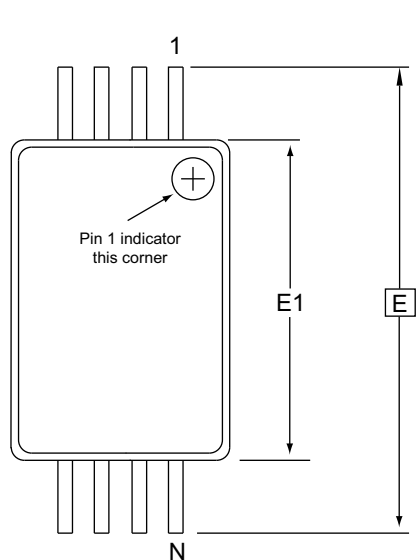
DRAWING NO.

8S1

REV.

G

13.2 8X — 8-lead TSSOP



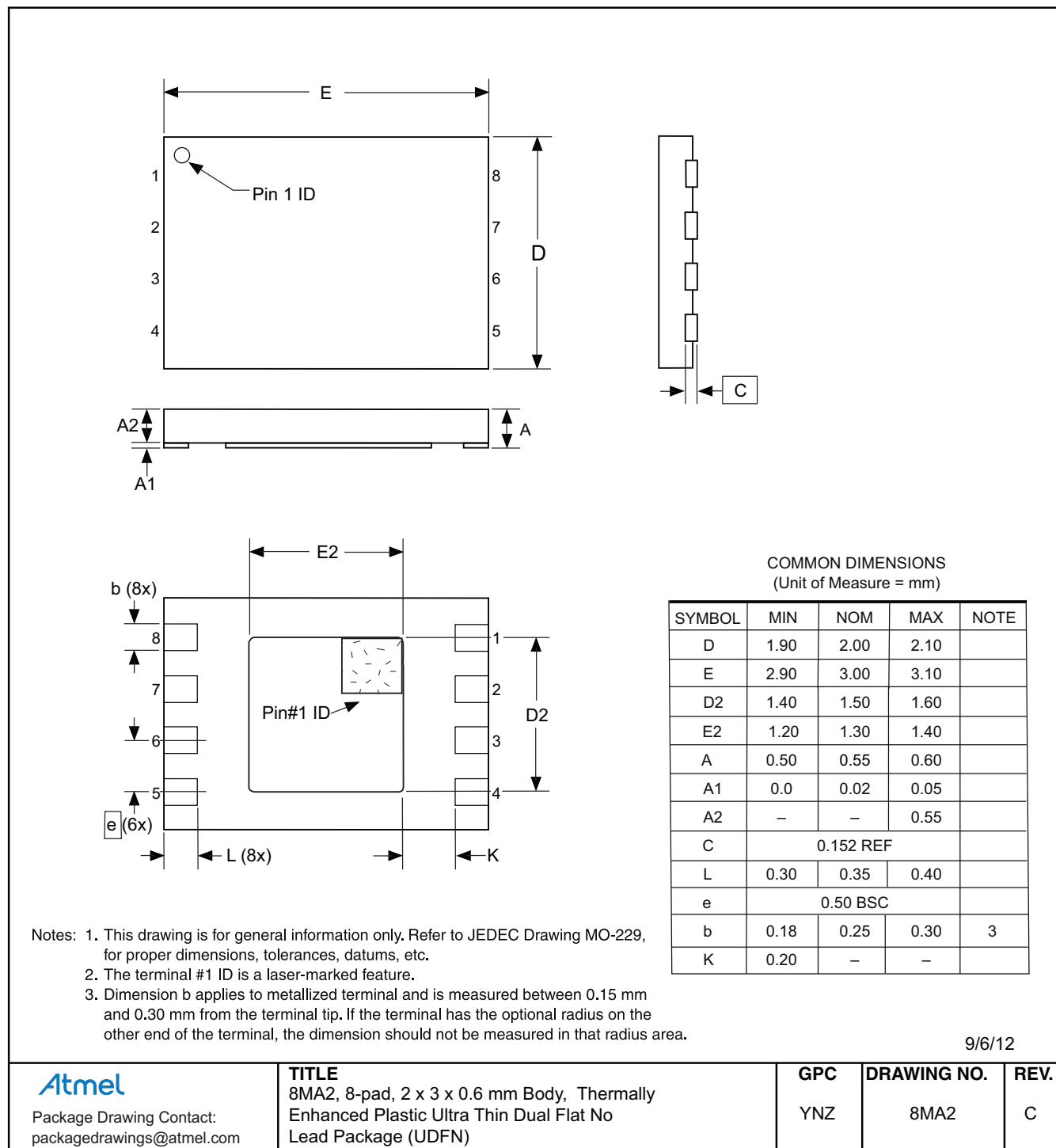
COMMON DIMENSIONS (Unit of Measure = mm)				
SYMBOL	MIN	NOM	MAX	NOTE
A	-	-	1.20	
A1	0.05	-	0.15	
A2	0.80	1.00	1.05	
D	2.90	3.00	3.10	2, 5
E	6.40 BSC			
E1	4.30	4.40	4.50	3, 5
b	0.19	-	0.30	4
e	0.65 BSC			
L	0.45	0.60	0.75	
L1	1.00 REF			
C		0.09	-	0.20

- Notes:
1. This drawing is for general information only. Refer to JEDEC Drawing MO-153, Variation AA, for proper dimensions, tolerances, datums, etc.
 2. Dimension D does not include mold Flash, protrusions or gate burrs. Mold Flash, protrusions and gate burrs shall not exceed 0.15mm (0.006in) per side.
 3. Dimension E1 does not include inter-lead Flash or protrusions. Inter-lead Flash and protrusions shall not exceed 0.25mm (0.010in) per side.
 4. Dimension b does not include Dambar protrusion. Allowable Dambar protrusion shall be 0.08mm total in excess of the b dimension at maximum material condition. Dambar cannot be located on the lower radius of the foot. Minimum space between protrusion and adjacent lead is 0.07mm.
 5. Dimension D and E1 to be determined at Datum Plane H.

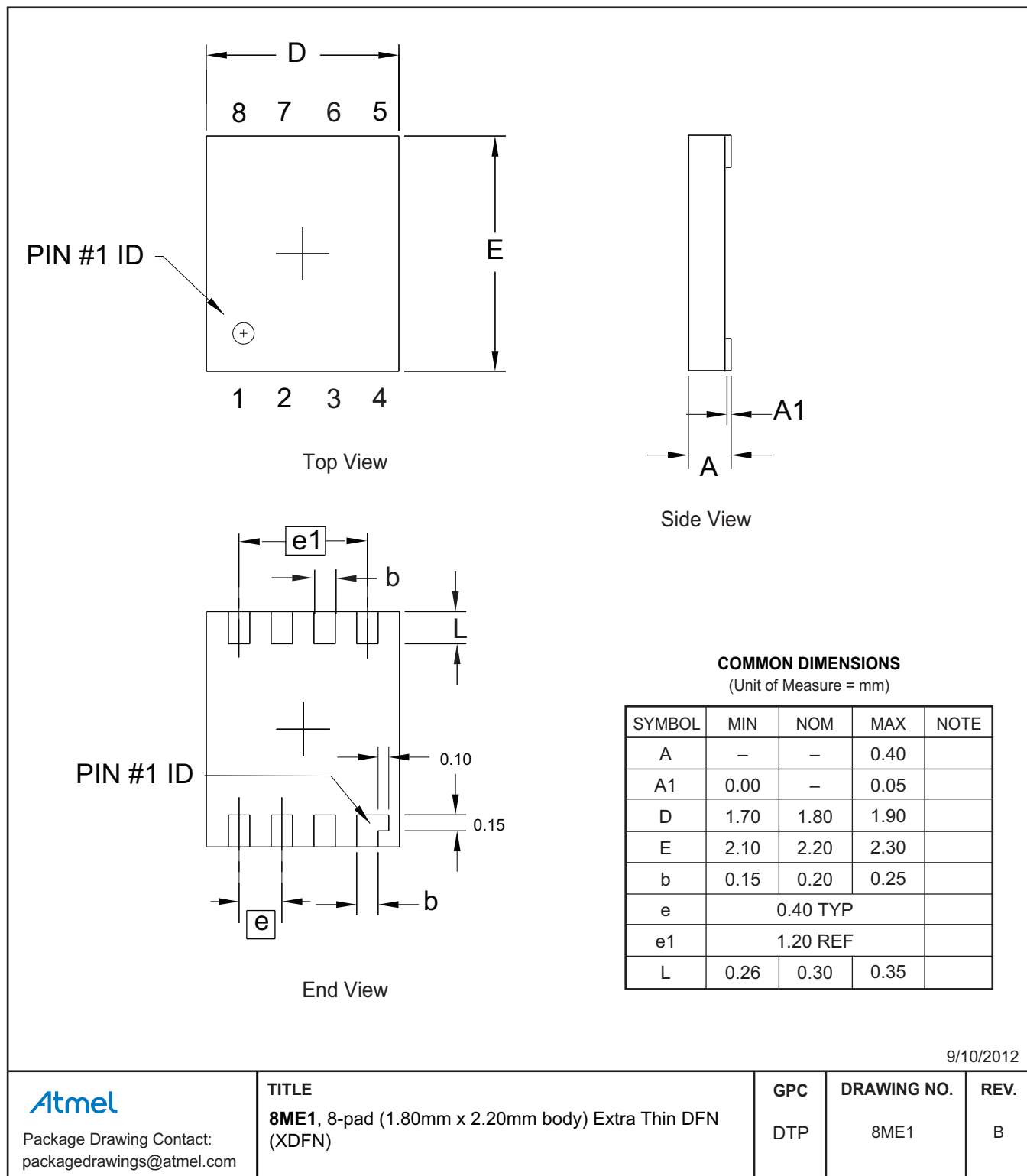
6/22/11

 Package Drawing Contact: packagedrawings@atmel.com	TITLE 8X, 8-lead 4.4mm Body, Plastic Thin Shrink Small Outline Package (TSSOP)	GPC	DRAWING NO.	REV.
		TNR	8X	D

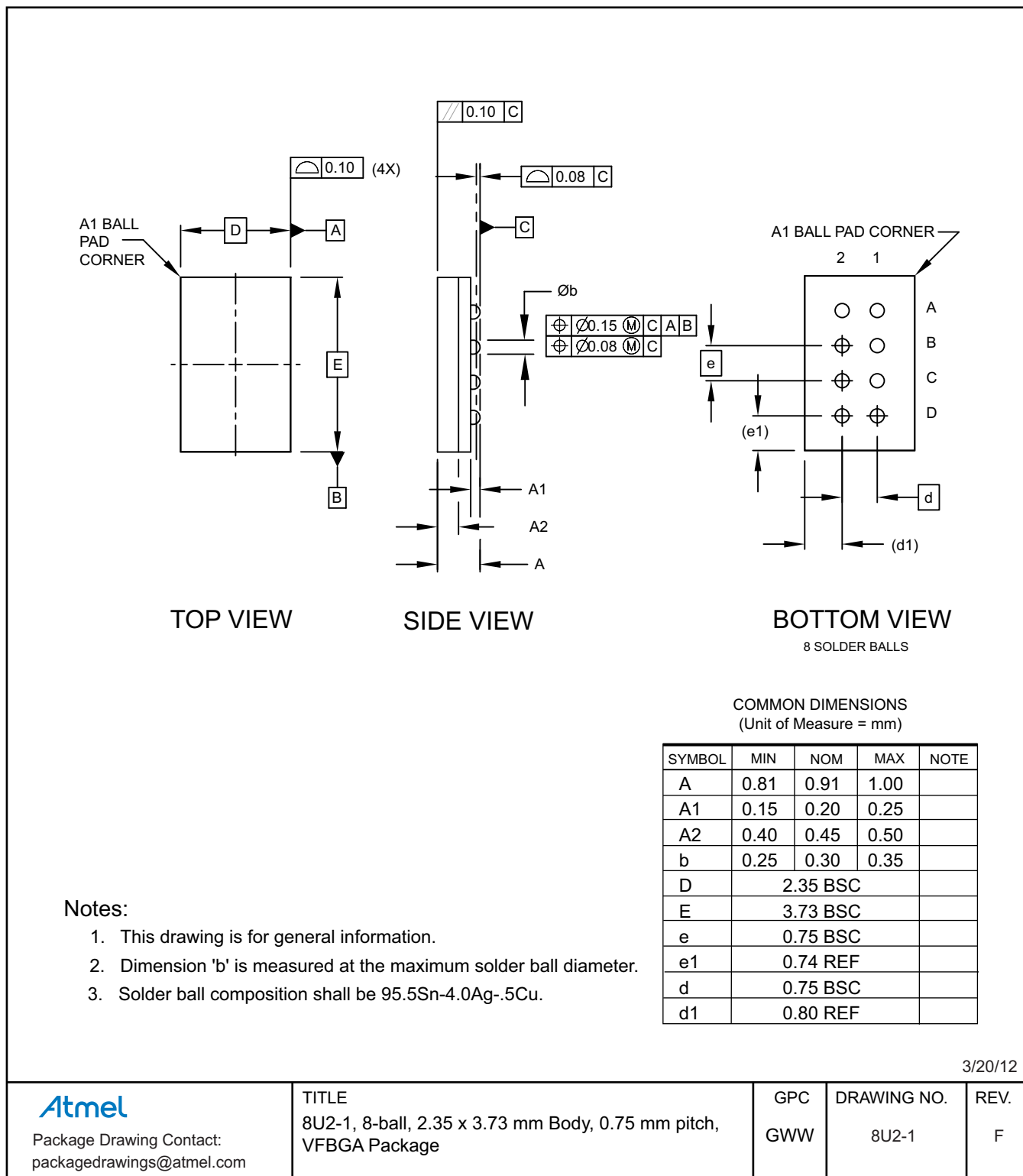
13.3 8MA2 — 8-pad UDFN



13.4 8ME1 — 8-pad XDFN



13.5 8U2-1 — 8-ball VFBGA



14. Revision History

Doc. Rev.	Date	Comments
8734B	09/2012	Update UDFN package drawing. Update template and Atmel logo.
8734A	04/2011	Initial document release.



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- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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