



PCN / EOL Notification

Product Change Notification Number: CC100401

Date*: February 10, 2010

Title: AT25010A, AT25020A and AT25040A DIE SHRINK

Product Identification:

All Wafers and Packages of the AT25010A, AT25020A and AT25040A, Industrial Temperature Grade (-40C to +85C)

[See Attachment A](#)

Reason for Change:

☐ Design	☒ Processing	☐ Logistics
☐ Manufacturing Location	☐ Quality/Reliability	☐ Material

Change Description:

Atmel has optimized the layout for the industrial grade (-40C to 85C) AT25010A, AT25020A and AT25040A devices. The new devices are pin-to-pin and backward compatible with the current devices and remain on .35u process. The NEW part numbers will be created by adding a "B" to the suffix of the part identifier: AT25010**B**, AT25020**B** and AT25040**B**.

Atmel has also consolidated the part numbers by offering one single device that covers a wide voltage range from 1.8V to 5.5V. This will simplify customers' inventory management as well as increase system design flexibility.

The new packaged devices offered with the AT25010**B**, AT25020**B** and AT25040**B** are as the following:

8-lead XDFN:	ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating.
8-lead JEDEC SOIC:	ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating.
8-lead TSSOP:	ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating.
8-lead UDFN (Mini-MAP):	ROHS compliant/Lead-Free/Halogen-Free/NiPdAu plating.

Atmel will also support die sales shipment in Wafer Form, Tape and Reel and Bumped Wafers.

Identification Method to Distinguish Change:

There will be NEW part numbers created by adding a "B" to the suffix of the catalogue part number: The AT25010A, AT25020A and AT25040A will now be AT25010**B**, AT25020**B** and AT25040**B** respectively.

Qualification Data:	☒ available	☐ will be available	☐ not applicable
Samples:	☐ available	☒ will be available upon request	☐ not applicable

Quantifiable Impact on Quality & Reliability:

The new devices are a form, fit and function equivalent of the current devices, which meet all databook specifications.

Estimated Availability Date:	Available now
Last Time Buy Date:	July 30, 2010
Last Ship Date:	January 30, 2011

** All orders for the non shrink products placed after the notification date are non-cancellable and non-returnable (NCNR).*

Atmel Contact: pcnadm@atmel.com

Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Quality Contact e-mail address listed above.

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Attachment A

This is the listing for standard datasheet offering, PCN also applies to all (customer specific) special CAN part numbers that are not listed in the table below:

EOL Part Number	Replacement Part Number	Carrier Type
AT25010A-10PU-1.8	No Replacement	Bulk
AT25010A-10PU-2.7	No Replacement	Bulk
AT25010A-10TU-1.8	AT25010B-XHL-B	Bulk
AT25010A-10TU-1.8 SL383	AT25010B-XHL-T	T/R
AT25010A-10TU-2.7	AT25010B-XHL-B	Bulk
AT25010A-10TU-2.7 SL383	AT25010B-XHL-T	T/R
AT25010AN-10SU-1.8	AT25010B-SSHL-B	Bulk
AT25010AN-10SU-1.8 SL383	AT25010B-SSHL-T	T/R
AT25010AN-10SU-2.7	AT25010B-SSHL-B	Bulk
AT25010AN-10SU-2.7 SL383	AT25010B-SSHL-T	T/R
AT25010AY1-10YH-1.8	*AT25010B-MAHL-T	T/R
AT25010AY6-10YH-1.8	AT25010B-MAHL-T	T/R
AT25010A-W1.8-11	AT25010B-WWU11L	
AT25020A-10PU-1.8	No Replacement	Bulk
AT25020A-10PU-2.7	No Replacement	Bulk
AT25020A-10TU-1.8	AT25020B-XHL-B	Bulk
AT25020A-10TU-1.8 SL383	AT25020B-XHL-T	T/R
AT25020A-10TU-2.7	AT25020B-XHL-B	Bulk
AT25020A-10TU-2.7 SL383	AT25020B-XHL-T	T/R
AT25020AN-10SU-1.8	AT25020B-SSHL-B	Bulk
AT25020AN-10SU-1.8 SL383	AT25020B-SSHL-T	T/R
AT25020AN-10SU-2.7	AT25020B-SSHL-B	Bulk
AT25020AN-10SU-2.7 SL383	AT25020B-SSHL-T	T/R
AT25020AY1-10YH-1.8	*AT25010B-MAHL-T	T/R
AT25020AY6-10YH-1.8	AT25020B-MAHL-T	T/R
AT25020A-W1.8-11	AT25020B-WWU11L	
AT25040A-10PU-1.8	No Replacement	Bulk
AT25040A-10PU-2.7	No Replacement	Bulk
AT25040A-10TU-1.8	AT25040B-XHL-B	Bulk
AT25040A-10TU-1.8 SL383	AT25040B-XHL-T	T/R
AT25040A-10TU-2.7	AT25040B-XHL-B	Bulk
AT25040A-10TU-2.7 SL383	AT25040B-XHL-T	T/R
AT25040AN-10SU-1.8	AT25040B-SSHL-B	Bulk
AT25040AN-10SU-1.8 SL383	AT25040B-SSHL-T	T/R
AT25040AN-10SU-2.7	AT25040B-SSHL-B	Bulk
AT25040AN-10SU-2.7 SL383	AT25040B-SSHL-T	T/R
AT25040AY1-10YH-1.8	*AT25010B-MAHL-T	T/R
AT25040AY6-10YH-1.8	AT25040B-MAHL-T	T/R
AT25040A-W1.8-11	AT25040B-WWU11L	

*Suggested Replacement, please refer to datasheet for detailed specification.

-The PDIP is not recommended for new designs due to low demand and as such will not appear on the datasheet

Attachment B

Top Side Marking

AT25010B-MEHL-T

TOP MARK

```
|---|---|---|
 5   1   B
|---|---|---|
 Y   X   X
|---|---|---|
 *
```

|
Pin 1 Indicator (Dot)

Line 2

Y = Year (9=2009)

XX = 2 digit trace code

AT25010B-MAHL-T

TOP MARK

```
|---|---|---|
 5   1   B
|---|---|---|
 H   L   @
|---|---|---|
 Y   X   X
|---|---|---|
 *
```

|
Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

XX = TRACE CODE (ATMEL LOT
NUMBERS TO CORRESPOND
WITH TRACE CODE LOG BOOK)
(e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR

8: 2008 0: 2012

9: 2009 1: 2013

0: 2010 2: 2014

1: 2011 3: 2015

@ = Country of
Assembly

AT25010B-XHL-T/B

TOP MARK

Pin 1 Indicator (Dot)

```
|
 * |---|---|---|---|---|---|
   | A   T   H   Y   W   W
   |---|---|---|---|---|---|
   | 5   1   B   L           @
|---|---|---|---|---|---|
   | ATMEL LOT NUMBER
|---|---|---|---|---|---|
```

Y = SEAL YEAR WW = SEAL WEEK

8: 2008 2: 2012

9: 2009 3: 2013

0: 2010 4: 2014

1: 2011 5: 2015

02 = Week 2

04 = Week 4

:: : :::: :

52 = Week 52

@ = Country of Assembly
No Bottom Mark

AT25010B-SSHL-T/B

TOP MARK

```
Seal Year
| Seal Week
|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|
 5   1   B   L           @
|---|---|---|---|---|---|---|
 * Lot Number
|---|---|---|---|---|---|---|
```

|
Pin 1 Indicator (Dot)

Y = SEAL YEAR

8: 2008 2: 2012

9: 2009 3: 2013

0: 2010 4: 2014

1: 2011 5: 2015

WW = SEAL WEEK

02 = Week 2

04 = Week 4

:: : :::: :

:: : :::: :

50 = Week 50

52 = Week 52

@ = Country of Assembly
No Bottom Mark

Attachment C

Top Side Marking

AT25020B-MEHL-T

TOP MARK
 |---|---|---|
 5 2 B
 |---|---|---|
 Y X X
 |---|---|---|
 *
 |
 Pin 1 Indicator (Dot)

Line 2
 Y = Year (9=2009)
 XX = 2 digit trace code

AT25020B-MAHL-T

TOP MARK
 |---|---|---|
 5 2 B
 |---|---|---|
 H L @
 |---|---|---|
 Y X X
 |---|---|---|
 *
 |
 Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

XX = TRACE CODE (ATMEL LOT
 NUMBERS TO CORRESPOND
 WITH TRACE CODE LOG BOOK)
 (e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR
 8: 2008 0: 2012 @ = Country
 9: 2007 1: 2013 of Assembly
 0: 2010 2: 2014
 1: 2011 3: 2015

AT25020B-SSHL-T/B

TOP MARK
 |---|---|---|---|---|---|---|---|
 A T M L H Y W W
 |---|---|---|---|---|---|---|---|
 5 2 B L @
 |---|---|---|---|---|---|---|---|
 * Lot Number
 |---|---|---|---|---|---|---|---|
 |
 Pin 1 Indicator (Dot)

Y = SEAL YEAR WW = SEAL WEEK
 8: 2008 2: 2012 02 = Week 2
 9: 2009 3: 2013 04 = Week 4
 0: 2010 4: 2014 :: : :::: :
 1: 2011 5: 2015 50 = Week 50
 52 = Week 52

@ = Country of Assembly
 No Bottom Mark

AT25020B-XHL-T/B

TOP MARK
 Pin 1 Indicator (Dot)
 |
 * |---|---|---|---|---|---|
 A T H Y W W
 |---|---|---|---|---|---|
 5 2 B L @
 |---|---|---|---|---|---|
 ATMEL LOT NUMBER
 |---|---|---|---|---|---|

Y = SEAL YEAR WW = SEAL WEEK
 8: 2008 2: 2012 02 = Week 2
 9: 2009 3: 2013 04 = Week 4
 0: 2010 4: 2014 :: : :::: :
 1: 2011 5: 2015 52 = Week 52

@ = Country of Assembly
 No Bottom Mark

Attachment D

Top Side Marking

AT25040B-MEHL-T

TOP MARK

```
|---|---|---|
 5   4   B
|---|---|---|
 Y   X   X
|---|---|---|
 *
```

|
Pin 1 Indicator (Dot)

Line 2

Y = Year (9=2009)

XX = 2 digit trace code

AT25040B-MAHL-T

TOP MARK

```
|---|---|---|
 5   4   B
|---|---|---|
 H   L   @
|---|---|---|
 Y   X   X
|---|---|---|
 *
```

|
Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

XX = TRACE CODE (ATMEL LOT
NUMBERS TO CORRESPOND
WITH TRACE CODE LOG BOOK)
(e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR

8: 2008 0: 2012

9: 2007 1: 2013

0: 2010 2: 2014

1: 2011 3: 2015

@ = Country
of Assembly

AT25040B-SSHL-T/B

TOP MARK

```
Seal Year
| Seal Week
| | |
|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|
 5   4   B   L               @
|---|---|---|---|---|---|---|
 *   Lot Number
|---|---|---|---|---|---|---|
```

|
Pin 1 Indicator (Dot)

Y = SEAL YEAR

8: 2008 2: 2012

9: 2009 3: 2013

0: 2010 4: 2014

1: 2011 5: 2015

WW = SEAL WEEK

02 = Week 2

04 = Week 4

:: : :::: :

50 = Week 50

52 = Week 52

@ = Country of Assembly
No Bottom Mark

AT25040B-XHL-T/B

TOP MARK

Pin 1 Indicator (Dot)

```
|
 * |---|---|---|---|---|---|
   | A   T   H   Y   W   W
   |---|---|---|---|---|---|
   | 5   4   B   L               @
   |---|---|---|---|---|---|
   | ATMEL LOT NUMBER
   |---|---|---|---|---|---|
```

Y = SEAL YEAR

8: 2008 2: 2012

9: 2009 3: 2013

0: 2010 4: 2014

1: 2011 5: 2015

WW = SEAL WEEK

02 = Week 2

04 = Week 4

:: : :::: :

52 = Week 52

@ = Country of Assembly
No Bottom Mark