



PCN / EOL Notification

Product Change Notification Number: CC092303

Date*: August 6, 2009

Title: AT25320A and AT25640A DIE SHRINK

Product Identification:

All Wafers and Packages of the AT25320A and AT25640A, Industrial Temperature Grade (-40C to +85C)
See Attachment A

Reason for Change:

☐ Design

☐ Manufacturing Location

☒ Processing

☐ Quality/Reliability

☐ Logistics

☐ Material

Change Description:

Atmel has performed a die size reduction for the industrial (-40C to 85C) grade AT25320A and AT25640A. The new version devices will be manufactured utilizing the .25u process versus the .35u process for the current AT25320A and the AT25640A. The NEW part numbers will be created by adding a "B" to the suffix of the part identifier: AT25320B and AT25640B.

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. 8-pin PDIP will not be supported in the shrink.

The new packaged devices offered with the AT25320B and the AT25640B are as the following:

8-ball VFBGA (dBG2):	ROHS compliant/Lead-Free/Halogen-Free/Matte Tin 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 XDFN (ULLGA):	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 AT25320A and AT25640A will now be AT25320B and AT25640B respectively.

Qualification Data:

☒ available

☐ will be available

☐ not applicable

Samples:

☒ available

☐ will be available

☐ 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:

February 6, 2010

Last Ship Date:

August 6, 2010

** 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
AT25320A-10PU-1.8	No Replacement	Bulk
AT25320A-10PU-2.7	No Replacement	Bulk
AT25320A-10TU-1.8	AT25320B-XHL-B	Bulk
AT25320A-10TU-1.8 SL383	AT25320B-XHL-T	T/R
AT25320A-10TU-2.7	AT25320B-XHL-B	Bulk
AT25320A-10TU-2.7 SL383	AT25320B-XHL-T	T/R
AT25320AN-10SU-1.8	AT25320B-SSHL-B	Bulk
AT25320AN-10SU-1.8 SL383	AT25320B-SSHL-T	T/R
AT25320AN-10SU-2.7	AT25320B-SSHL-B	Bulk
AT25320AN-10SU-2.7 SL383	AT25320B-SSHL-T	T/R
AT25320AY6-10YH-1.8	AT25320B-MAHL-T	T/R
New Part #	AT25320B-MEHL-T	T/R
New Part #	AT25320B-CUL-T	T/R
AT25320A-W1.8-6	AT25320B-WWU11L	
AT25320A-W1.8-11	AT25320B-WWU11L	
AT25320A-W1.8-27	AT25320B-WWU27L	
AT25320A-WU1811-T	Please contact local sales office	
AT25640A-10PU-1.8	No Replacement	Bulk
AT25640A-10PU-2.7	No Replacement	Bulk
AT25640A-10TU-1.8	AT25640B-XHL-B	Bulk
AT25640A-10TU-1.8 SL383	AT25640B-XHL-T	T/R
AT25640A-10TU-2.7	AT25640B-XHL-B	Bulk
AT25640A-10TU-2.7 SL383	AT25640B-XHL-T	T/R
AT25640AN-10SU-1.8	AT25640B-SSHL-B	Bulk
AT25640AN-10SU-1.8 SL383	AT25640B-SSHL-T	T/R
AT25640AN-10SU-2.7	AT25640B-SSHL-B	Bulk
AT25640AN-10SU-2.7 SL383	AT25640B-SSHL-T	T/R
AT25640AN-SU27L4	Contact local sales	Bulk
AT25640AY1-10YU-1.8	*AT25640B-MAHL-T	T/R
AT25640AY6-10YH-1.8	AT25640B-MAHL-T	T/R
New Part #	AT25640B-MEHL-T	T/R
New Part #	AT25640B-CUL-T	T/R
AT25640A-W1.8-11	AT25640B-WWU11L	
AT25640A-W1.8-27	AT25640B-WWU27L	

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

Attachment B

Top Side Marking

AT25320B-CUL-T

TOP MARK

```

|---|---|---|---|
 5   B   B   U
|---|---|---|---|
 Y   M   X   X
|---|---|---|---|
|<-- Pin 1 This Corner

```

Y = ONE DIGIT YEAR CODE

8: 2008 1: 2011

9: 2009 2: 2012

1: 2011 3: 2013

M = SEAL MONTH (USE ALPHA DESIGNATOR A-L

A = JANUARY

B = FEBRUARY

" " " " " " " " " "

J = OCTOBER

K = NOVEMBER

L = DECEMBER

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

AT25320B-SSHL-T/B

TOP MARK

```

                Seal Year
                | Seal Week
                | | |
|---|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|---|
 5   B   B   L               @
|---|---|---|---|---|---|---|---|
 *   Lot Number
|---|---|---|---|---|---|---|---|
|
Pin 1 Indicator (Dot)

```

Y = SEAL YEAR

8: 2008 2: 2012

9: 2009 3: 2013

0: 2010 4: 2014

1: 201 5: 2015

WW = SEAL WEEK

02 = Week 2

04 = Week 4

:: : :::: :

:: : :::: ::

50 = Week 50

52 = Week 52

@ = Country of Assembly
No Bottom Mark

AT25320B-MAHL-T

TOP MARK

```

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

```

Y = YEAR OF ASSEMBLY

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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

AT25320B-MEHL-T

TOP MARK

```

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

```

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8: 2008 0: 2012

9: 2007 1: 2013

0: 2010 2: 2014

1: 2011 3: 2015

AT25320B-XHL-T/B

TOP MARK

Pin 1 Indicator (Dot)

```

|
|---|---|---|---|---|---|
*  A   T   H   Y   W   W
|---|---|---|---|---|---|
   5   B   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 C

Top Side Marking

AT25640B-CUL-T

TOP MARK

```
|---|---|---|---|
 5   C   B   U
|---|---|---|---|
 Y   M   X   X
|---|---|---|---|
|<-- Pin 1 This Corner
```

Y = ONE DIGIT YEAR CODE

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1: 2011 3: 2013

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AT25640B-MAHL-T

TOP MARK

```
|---|---|---|
 5   C   B
|---|---|---|
 H   L   @
|---|---|---|
 Y   X   X
|---|---|---|
 *
 |
Pin 1 Indicator (Dot)
```

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1: 2011 3: 2015

@ = Country of Assembly

AT25640B-XHL-T/B

TOP MARK

```
Pin 1 Indicator (Dot)
 |
 * |---|---|---|---|---|---|
   | A   T   H   Y   W   W
   |---|---|---|---|---|---|
   | 5   C   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

AT25640B-SSHL-T/B

TOP MARK

```
Seal Year
 | Seal Week
 | | |
|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|
 5   C   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: 201 5: 2015 :: : :::: :
50 = Week 50
52 = Week 52

@ = Country of Assembly
No Bottom Mark

AT25640B-MEHL-T

TOP MARK

|---|---|---|

5 C B

|---|---|---|

Y X X

|---|---|---|

*

|

Pin 1 Indicator (Dot)

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