



PCN / EOL Notification

Product Change Notification Number: **CC084205D (REVISED 08/28/09)**
SEE UPDATE IN ATTACHMENT A

Date*: November 4, 2008

Title: AT25080A and AT25160A DIE SHRINK

Product Identification:

All Wafers and Packages of the AT25080A and AT25160A, Industrial Temperature Grade (-40C to +85C).

[See Attachment A](#)

Reason for Change:

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

Change Description:

Atmel has performed a die size reduction for the industrial (-40C to 85C) grade AT25080A and AT25160A. The new version devices will be manufactured utilizing the .25u process versus the .35u process for the current AT25080A and the AT25160A. The NEW part numbers will be created by adding a "B" to the suffix of the part identifier: AT25080**B** and AT25160**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. **8-pin PDIP will not be supported in the shrink.**

Note: We have added an easy cross table for reference as the "A" die can still be ordered in accordance with the dates below but for ALL new orders on the shrink "B" will adhere ONLY to the new replacement ordering schemes detailed in Attachment A effective immediately.

The new packaged devices offered with the AT25080**B** and the AT25160**B** are as the following:

8-ball dBG2:	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 AT25080A and AT25160A will now be AT25080**B** and AT25160**B** 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:	December 1, 2008
Last Time Buy Date:	June 1, 2010
Last Ship Date:	January 1, 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

EOL Part Number	Old Replacement Part Number	New Replacement Part Number	Carrier Type
AT25080A-10PU-1.8	AT25080B-PU	No Replacement	Bulk
AT25080A-10PU-2.7	AT25080B-PU	No Replacement	Bulk
AT25080A-10TU-1.8	AT25080B-TH-B	AT25080B-XHL-B	Bulk
AT25080A-10TU-1.8 SL383	AT25080B-TH-T	AT25080B-XHL-T	T/R
AT25080A-10TU-2.7	AT25080B-TH-B	AT25080B-XHL-B	Bulk
AT25080A-10TU-2.7 SL383	AT25080B-TH-T	AT25080B-XHL-T	T/R
AT25080AN-10SU-1.8	AT25080BN-SH-B	AT25080B-SSHL-B	Bulk
AT25080AN-10SU-1.8 SL383	AT25080BN-SH-T	AT25080B-SSHL-T	T/R
AT25080AN-10SU-2.7	AT25080BN-SH-B	AT25080B-SSHL-B	Bulk
AT25080AN-10SU-2.7 SL383	AT25080BN-SH-T	AT25080B-SSHL-T	T/R
AT25080AY1-10YU-1.8		No replacement	
AT25080AY5-10YU-1.8 SL383	AT25080BY6-YH-T	AT25080B-MAHL-T	T/R
AT25080AY6-10YH-1.8	AT25080BY6-YH-T	AT25080B-MAHL-T	T/R
New Part #	AT25080BD3-DH-T	AT25080B-MEHL-T	T/R
New Part #	AT25080BU3-UU-T	AT25080B-CUL-T	T/R
AT25080A-W1.8-11	AT25080B-W-11	AT25080B-WWU11L	Waffle Pack, T/R and Inkless Wafer (SL788)
AT25080A-W1.8-27	AT25080B-W-27	AT25080B-WWU27L	Waffle Pack, T/R and Inkless Wafer (SL788)
AT25080A-TU27BR	Please contact local sales office		
AT25080AY6-YH18X6			
AT25080A-WU1.8-7			
AT25080A-WU1811L2			
AT25080A-WU2.7-11			
AT25080A-WU2711E7			
AT25080A-WU2711L2			
AT25080A-WU2727G3			
AT25160A-10PU-1.8	AT25160B-PU	No Replacement	Bulk
AT25160A-10PU-2.7	AT25160B-PU	No Replacement	Bulk
AT25160A-10TU-1.8	AT25160B-TH-B	AT25160B-XHL-B	Bulk
AT25160A-10TU-1.8 SL383	AT25160B-TH-T	AT25160B-XHL-T	T/R
AT25160A-10TU-2.7	AT25160B-TH-B	AT25160B-XHL-B	Bulk
AT25160A-10TU-2.7 SL383	AT25160B-TH-T	AT25160B-XHL-T	T/R
AT25160AD3-10DH-1.8	AT25160BD3-DH-T	AT25160B-MEHL-T	T/R
AT25160AN-10SU-1.8	AT25160BN-SH-B	AT25160B-SSHL-B	Bulk
AT25160AN-10SU-1.8 SL383	AT25160BN-SH-T	AT25160B-SSHL-T	T/R
AT25160AN-10SU-2.7	AT25160BN-SH-B	AT25160B-SSHL-B	Bulk
AT25160AN-10SU-2.7 SL383	AT25160BN-SH-T	AT25160B-SSHL-T	T/R
AT25160AY1-10YU-1.8	No Replacement		
AT25160AY6-10YH-1.8	AT25160BY6-YH-T	AT25160B-MAHL-T	T/R
New Part #	AT25160BU3-UU-T	AT25160B-CUL-T	T/R
AT25160A-W1.8-11	AT25160B-W-11	AT25160B-WWU11L	Waffle Pack, T/R and Inkless Wafer (SL788)
AT25160A-W1.8-27	AT25160B-W-27	AT25160B-WWU27L	Waffle Pack, T/R and Inkless Wafer (SL788)
AT25160AD3-DH18Y8	Please contact local sales office		
AT25160A-TU27BS			
AT25160A-WU187R1			

Attachment B

Top Side Marking

AT25080B-CUL-T

TOP MARK

```

|---|---|---|---|
 5   8   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

A = JANUARY
B = FEBRUARY
" " " " " " " " " "

J = OCTOBER
K = NOVEMBER
L = DECEMBER

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

AT25080B-SSHL-T/B

```

                                Seal Year
TOP MARK                        | Seal Week
                                | | |
|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|
 5   8   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

AT25080B-MAHL-T

TOP MARK

```

|---|---|---|
 5   8   B
|---|---|---|
  H   L   @
|---|---|---|
  Y   X   X
|---|---|---|
 *
|
Pin 1 Indicator (Dot)

```

Y = YEAR OF ASSEMBLY

XX = TRACE CODE (ATEMEL LOT
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(e.g. XX = AA, AB...YZ, ZZ)

Y = SEAL YEAR

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9: 2007 1: 2013
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1: 2011 3: 2015

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AT25080B-MEHL-T

TOP MARK

```

|---|---|---|
 5   8   B
|---|---|---|
  Y   X   X
|---|---|---|
 *
|
Pin 1 Indicator (Dot)

```

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0: 2010 2: 2014
1: 2011 3: 2015

AT25080B-XHL-T/B

TOP MARK

Pin 1 Indicator (Dot)

```

|
|  |---|---|---|---|---|---|
*  A  T  H  Y  W  W
|  |---|---|---|---|---|---|
   5  8  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	:: : :::: ::
	50 = Week 50
	52 = Week 52

@ = Country of Assembly
No Bottom Mark

Attachment C

Top Side Marking

AT25160B-CUL-T

TOP MARK

```

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

```

Y = ONE DIGIT YEAR CODE

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9: 2009 2: 2012
1: 2011 3: 2013

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A = JANUARY
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(e.g. XX = AA, AB...YZ, ZZ)

AT25160B-SSHL-T/B

TOP MARK

```

                Seal Year
                | Seal Week
|---|---|---|---|---|---|---|
 A   T   M   L   H   Y   W   W
|---|---|---|---|---|---|---|
 5   A   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

AT25160B-MAHL-T

TOP MARK

```

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

```

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AT25160B-XHL-T/B

TOP MARK

```

Pin 1 Indicator (Dot)
|
 * |---|---|---|---|---|---|
   A   T   H   Y   W   W
   |---|---|---|---|---|---|
   5   A   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
:: : :::: :
:: : :::: :
50 = Week 50
52 = Week 52

@ = Country of Assembly
No Bottom Mark

AT25160B-MEHL-T

TOP MARK

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

|
Pin 1 Indicator (Dot)

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