PCN / EOL Notification

Product Change Notification Number: CC074701   **Date*:** November 26, 2007

Title: AT24C08A Clock Frequency Increase and Conversion to NiPdAu Plating for SOIC, TSSOP and ULTRA THIN MINI-MAP Packages

Product Identification:
All Wafers, Packages and Voltages of the AT24C08A, Industrial Temperature
See Attachment A

Reason for Change: ☒ Design   ☐ Processing   ☐ Logistics
                               ☐ Manufacturing Location   ☐ Quality/Reliability   ☐ Material

Change Description:

Atmel has optimized the layout of the AT24C08A devices and increased clock frequency up to 1MHz. The new devices are pin-to-pin and backward compatible with the current AT24C08A devices.

NEW catalogue part numbers will be created: The AT24C08A will now be AT24C08B. In an effort to streamline our product offering, the AT24C08B will be offered with one marking scheme, 1.8V, and will operate in voltage range from 1.8V to 5.5V.

To accommodate the growing movement to Lead-Free products, the AT24C08B will ONLY be available in Pb-Free / Halogen-Free (Green), and RoHS compliant packaging. The 8-SOIC, 8-TSSOP and 8-ULTRA THIN MINI-MAP packages with NiPdAu lead finish will be designated by "H" in the catalogue part number. The 8-PDIP, 5-SOT23 and dBGA2 will continue to be produced with the Matte Tin lead finish and will be designated by "U" in the catalogue part number. Please refer to "Attachment A" for the complete cross reference table.
Note: Please refer to the datasheet for parametric specifications.

New physical part marking scheme:

AT24C08B

```
8-SOIC
 TOP MARK                 Seal Year       Y = SEAL YEAR        WW = SEAL WEEK
                          |  Seal Week   6: 2006   0: 2010     02 = Week 2
                          |    |    |     7: 2007   1: 2011     04 = Week 4
  |---|---|---|---|---|---|---|---|       8: 2008   2: 2012     :: : :::: :
    A   T   M   L   H   Y   W   W         9: 2009   3: 2013     :: : :::: ::
  |---|---|---|---|---|---|---|---|                             50 = Week 50
    0   8   B       1                                           52 = Week 52
  |---|---|---|---|---|---|---|---|
    *    Lot Number                   Lot Number to Use ALL Characters in Marking
  |---|---|---|---|---|---|---|---|
    |                                  BOTTOM MARK
  Pin 1 Indicator (Dot)                     No Bottom Mark
```

8-TSSOP

TOP MARK

```
        Pin 1 Indicator (Dot)
        |
          |---|---|---|---|
          *   H   Y   W   W
      |---|---|---|---|---|
          0   8   B       1
      |---|---|---|---|---|
```

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   H
    |---|---|---|---|---|---|---|
      A   A   A   A   A   A   A
    |---|---|---|---|---|---|---|
        <- Pin 1 Indicator
```

8-Ultra Thin Mini MAP

TOP MARK

```
        |---|---|---|
          0   8   B
        |---|---|---|
          H   1
        |---|---|---|
          Y   X   X
        |---|---|---|
          *
          |
      Pin 1 Indicator (Dot)
```

Y = YEAR OF ASSEMBLY

XX = ATMEL LOT NUMBER TO COORESPOND WITH
NSEB TRACE CODE LOG BOOK.
(e.g. XX = AA, AB, AC,...AX, AY, AZ)

Y = SEAL YEAR	
6: 2006	0: 2010
7: 2007	1: 2011
8: 2008	2: 2012
9: 2009	3: 2013

8-PDIP

TOP MARK

```
                    Seal Year
                    | Seal Week
                    | | |
  |---|---|---|---|---|---|---|---|
    A   T   M   L   U   Y   W   W
  |---|---|---|---|---|---|---|---|
    0   8   B       1
  |---|---|---|---|---|---|---|---|
    *   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

SOT23
TOP MARK
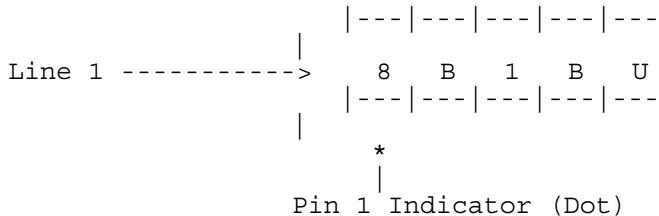
```
                       |---|---|---|---|---
                    |
Line 1 ----------->    8   B   1   B   U        XX = Device
                       |---|---|---|---|---      V = Voltage Indicator
                    |                            W = Write Protect Feature
                        *                        U = Material Set
                    |
                  Pin 1 Indicator (Dot)
BOTTOM MARK
                                                 Y = One Digit Year Code
    |---|---|---|---|                            M = Seal Month
      Y   M   T   C                              (Use Alpha Designator A-L)
    |---|---|---|---|                            TC = Trace Code
```
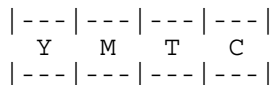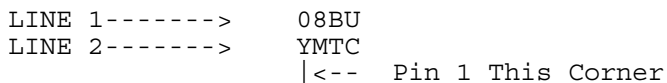
dBGA2
TOP MARK

```
LINE 1------->    08BU
LINE 2------->    YMTC
                 |<--  Pin 1 This Corner
XXX = Device
U = Material Set
Y = One Digit Year Code
M = Seal Month (Use Alpha Designator A-L)
TC = Trace Code
```

Identification Method to Distinguish Change:
A NEW catalogue part number will be created for the optimized layout: The AT24C08A will now be AT24C08B.

Qualification Data:	☐ available	☒ will be available in JAN-08	☐ not applicable
Samples:	☐ available	☒ will be available in DEC-07	☐ not applicable

Quantifiable Impact on Quality & Reliability:
The new devices utilize the same 0.35u process technology and are a form, fit and functional equivalent of the current devices, which meet all data book specifications. Please refer to the datasheet for parametric specifications.

Proposed First Ship Date:	February 24, 2008
Last Time Buy Date:	May 19, 2008
Last Ship Date:	November 19, 2008

** All orders 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.

Attachment A

Current Part Number	Replacement Part Number
AT24C08A-10PU-1.8	AT24C08B-PU
AT24C08A-10PU-2.7	AT24C08B-PU
AT24C08A-10TSU-1.8 SL383 (T&R)	AT24C08B-TSU-T (5k per reel)
AT24C08A-10TU-1.8 BULK	AT24C08B-TH-B
AT24C08A-10TU-1.8 SL383 (T&R)	AT24C08B-TH-T (5k per reel)
AT24C08A-10TU-2.7 BULK	AT24C08B-TH-B
AT24C08A-10TU-2.7 SL383 (T&R)	AT24C08B-TH-T (5k per reel)
AT24C08A-W1.8-11	AT24C08B-W-11
AT24C08A-W2.7-11	AT24C08B-W-11
AT24C08AN-10SU-1.8 BULK	AT24C08BN-SH-B
AT24C08AN-10SU-1.8 SL383 (T&R)	AT24C08BN-SH-T (4k per reel)
AT24C08AN-10SU-2.7 BULK	AT24C08BN-SH-B
AT24C08AN-10SU-2.7 SL383 (T&R)	AT24C08BN-SH-T (4k per reel)
AT24C08AU2-10UU-1.8 SL383 (T&R)	AT24C08BU3-UU-T (5k per reel) *Recommend dBGA2 (U3) for replacement (not a direct replacement)
AT24C08AY1-10YU-1.8 SL383 (T&R)	AT24C08BY6-YH-T (5k per reel) *Recommend Ultra Thin Mini MAP (Y6) for replacement (not a direct replacement)
AT24C08AY5-10YU-1.8 SL383 (T&R)	AT24C08BY6-YH-T (5k per reel) *Recommend Ultra Thin Mini MAP (Y6) for replacement (not a direct replacement)
AT24C08AY6-10YH-1.8 SL383 (T&R)	AT24C08BY6-YH-T (5k per reel)

Note: This PCN also applies to CAN part numbers that are not listed in the above table.