



PCN / EOL Notification

Product Change Notification Number: CC072601

Date*: July 3, 2007

Title: AT24C256B New Catalogue Part Number & Physical Part Marking Schemes and Conversion to NiPdAu plating for SOIC, TSSOP and ULTRA THIN SAP packages

Product Identification:

All Wafers and Packages of the AT24C256B, Industrial Temperature **See Attachment A**

Reason for Change:

- | | | |
|---|--|------------------------------------|
| <input type="checkbox"/> Design | <input checked="" type="checkbox"/> Processing | <input type="checkbox"/> Logistics |
| <input type="checkbox"/> Manufacturing Location | <input type="checkbox"/> Quality/Reliability | <input type="checkbox"/> Material |

Change Description:

Atmel is altering all current AT24C256B Serial EEPROM industrial part numbers in order to align with our new strategic part numbering scheme and streamlined manufacturing process for all new Serial EEPROM shrinks & devices. This PCN pertains to part number & marking scheme changes only and does NOT involve a shrink NOR process technology change.

Note: PCN CC054503, announcing AT24C256B device, issued in 11/2005, is still valid.

In addition to being fully RoHS compliant, the new AT24C256B 8-SOIC, 8-TSSOP and 8-ULTRA THIN SAP packages will consist of NiPdAu lead finish, denoted by "H" in the catalogue part number, versus current "U" Matte Tin lead finish designator. The 8-PDIP and 8-dBGA2 packages will continue to be produced with Matte Tin lead finish, retaining "U" in the catalogue part number designator.

New catalogue part number scheme

- Eliminating "-10"
 - Eliminating voltage designator (designating 1.8v).
 - Adding suffix "-B" to the catalogue part number will denote bulk form.
 - Adding suffix "-T" to the catalogue part number will denote Tape and Reel requirements.
- As the new catalogue part number will incorporate Tape and Reel requirements, the need for Tape and Reel SL's will be eliminated.

See **Attachment A** for part number cross reference table.

New physical part marking scheme

Physical part marking of the AT24C256B will be transferred to the following new scheme:

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 |
| 2 E B 1 | | | 52 = Week 52 |

| --- | --- | --- | --- | --- | --- | --- | --- |
 * Lot Number

Lot Number to Use ALL Characters in Marking

| --- | --- | --- | --- | --- | --- | --- | --- |
 |
 Pin 1 Indicator (Dot)

BOTTOM MARK

No Bottom Mark

8-TSSOP

TOP MARK

```

Pin 1 Indicator (Dot)
|
|---|---|---|---|
*  H  Y  W  W
|---|---|---|---|
  2  E  B      1
|---|---|---|---|

```

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

WW = SEAL WEEK
02 = Week 2
04 = Week 4
:: : :::: :
:: : :::: ::
50 = Week 50
52 = Week 52

BOTTOM MARK

```

|---|---|---|---|---|---|
X  X
|---|---|---|---|---|---|
A  A  A  A  A  A  A
|---|---|---|---|---|---|
<- Pin 1 Indicator

```

8-PDIP

TOP MARK

```

Seal Year
| Seal Week
| | |
|---|---|---|---|---|---|---|
A  T  M  L  U  Y  W  W
|---|---|---|---|---|---|---|---|
  2  E  B      1
|---|---|---|---|---|---|---|---|
*  Lot Number
|---|---|---|---|---|---|---|---|
|
Pin 1 Indicator (Dot)

```

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

WW = SEAL WEEK
02 = Week 2
04 = Week 4
:: : :::: :
:: : :::: ::
50 = Week 50
52 = Week 52

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

8-Ultra Thin SAP

TOP MARK

```

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

```

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

WW = SEAL WEEK
02 = Week 2
04 = Week 4
:: : :::: :
:: : :::: ::
50 = Week 50
52 = Week 52

dBGA2

TOP MARK

LINE 1-----> 2EBU
LINE 2-----> YMTC
 |<-- Pin 1 This Corner

Y = ONE DIGIT YEAR CODE
4: 2004 7: 2007
5: 2005 8: 2008
6: 2006 9: 2009

M = SEAL MONTH (USE ALPHA DESIGNATOR A-L)
A = JANUARY
B = FEBRUARY
" " " " " " " " " " " "
J = OCTOBER
K = NOVEMBER
L = DECEMBER

TC = TRACE CODE (ATEL LOT
NUMBERS TO CORRESPOND
WITH ATK TRACE CODE LOG BOOK)

| | | | |
|----------------------------|---|--|---|
| Qualification Data: | <input checked="" type="checkbox"/> available | <input type="checkbox"/> will be available | <input type="checkbox"/> not applicable |
| Samples: | <input checked="" type="checkbox"/> available | <input type="checkbox"/> will be available | <input type="checkbox"/> not applicable |

Quantifiable Impact on Quality & Reliability:

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

| | |
|----------------------------------|-------------------|
| Proposed First Ship Date: | Immediate |
| Last Time Buy Date: | December 25, 2007 |
| Last Ship Date: | June 25, 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.

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Attachment A

| Current Part Number | Replacement Part Number |
|----------------------------------|---|
| AT24C256B-10PU-1.8 | AT24C256B-PU (Bulk Only) |
| AT24C256B-10TU-1.8 BULK | AT24C256B-TH-B |
| AT24C256B-10TU-1.8 SL383 (T&R) | AT24C256B-TH-T (5k per reel) |
| AT24C256B-W1.8-11 | AT24C256B-W-11 |
| AT24C256B-W1.8-7 | AT24C256B-W-11 |
| AT24C256BN-10SU-1.8 BULK | AT24C256BN-SH-B |
| AT24C256BN-10SU-1.8 SL383 (T&R) | AT24C256BN-SH-T (4k per reel) |
| AT24C256BW-10SU-1.8 BULK | AT24C256BW-SH-B |
| AT24C256BW-10SU-1.8 SL383 (T&R) | AT24C256BW-SH-T (2k per reel) |
| AT24C256BY1-10YU-1.8 SL383 (T&R) | AT24C256BY7-YH-T (3k per reel) *Recommend SAP (Y7) package for replacement |
| AT24C256BU2-10UU-1.8 SL383 (T&R) | AT24C256BU2-UU-T (5k per reel) |

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