



PCN / EOL Notification

Product Change Notification Number: CC064403

Date: November 21, 2006

Title: AT24C64A DIE SHRINK

Product Identification: All Wafers, Packages, and Voltages of the AT24C64A, Industrial Temperature Grade (-40C to +85C); see Attachment A for a complete part number listing.

Reason for Change:

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

Change Description:

Atmel has performed a die size reduction of the AT24C64A in the Industrial Temperature (-40°C to +85°C). The new device version will be manufactured utilizing the .25u process versus the .35u process for the current AT24C64A. A NEW part number will be created by adding a "C" to the suffix of the part identifier for the shrink: AT24C64C.

Atmel has also optimized the clock frequency at lower Vcc, and the new AT24C64C will operate at 1MHz at 2.5V versus 400kHz at 2.5V for the current AT24C64A. The new device will be offered only in 1.8 V (Vcc from 1.8V to 3.6V).

In addition, to accommodate the growing movement to Pb-Free products, the new shrink will ONLY be available in Pb-Free (Green) / Halogen-Free packaging. 8-SOIC, 8-TSSOP, and 8-ULTRA THIN MINI-MAP packages with the NiPdAu Lead Finish will be designated by "H" in the catalog part number. The 8-lead PDIP with the Matte Tin lead finish will be designated by "U" in the catalog part number.

New physical part marking scheme:

8-Ultra Thin Mini MAP

TOP MARK

```

|---|---|---|
  6  4  C
|---|---|---|
  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-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
6 4 C 1			52 = Week 52
--- --- --- --- --- --- --- ---			
* Lot Number			
--- --- --- --- --- --- --- ---			
Pin 1 Indicator (Dot)			

Lot Number to Use ALL Characters in Marking

BOTTOM MARK	No Bottom Mark
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8-TSSOP

TOP MARK	Pin 1 Indicator (Dot)	Y = SEAL YEAR	WW = SEAL WEEK
		6: 2006 0: 2010	02 = Week 2
	--- --- --- ---	7: 2007 1: 2011	04 = Week 4
	* H Y W W	8: 2008 2: 2012	:: : :::: :
--- --- --- --- ---		9: 2009 3: 2013	:: : :::: ::
6 4 C 1			50 = Week 50
--- --- --- --- ---			52 = Week 52

BOTTOM MARK

--- --- --- --- --- --- ---
P H
--- --- --- --- --- --- ---
A A A A A A A
--- --- --- --- --- --- ---
<- Pin 1 Indicator

8-PDIP

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 U Y W W		9: 2009 3: 2013	:: : :::: ::
--- --- --- --- --- --- --- ---			50 = Week 50
6 4 C 1			52 = Week 52
--- --- --- --- --- --- --- ---			

* Lot Number
 |---|---|---|---|---|---|---|
 |
 Pin 1 Indicator (Dot)

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

Identification Method to Distinguish Change:

There will be a NEW part number created by adding a "C" to the suffix of the catalogue part number: The AT24C64A will now be AT24C64C.

Qualification Data:	<input type="checkbox"/> available	<input checked="" type="checkbox"/> will be available in JAN-07	<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 function equivalent of the current devices, which meet all databook specifications.

Estimated Implementation Date*: January 25, 2007
Last Time Buy Date: April 25, 2007
Last Ship Date: October 25, 2007

*The Estimated Implementation Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.

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
AT24C64A-10PU-1.8	AT24C64C-PU
AT24C64A-10PU-2.7	AT24C64C-PU
AT24C64A-10TU-1.8 BULK	AT24C64C-TH-B
AT24C64A-10TU-1.8 SL383 (T&R)	AT24C64C-TH-T
AT24C64A-10TU-2.7 BULK	AT24C64C-TH-B
AT24C64A-10TU-2.7 SL383 (T&R)	AT24C64C-TH-T
AT24C64A-W1.8-11	AT24C64C-W-11
AT24C64A-W1.8-27	AT24C64C-W-11
AT24C64A-W2.7-11	AT24C64C-W-11
AT24C64A-W2.7-7	AT24C64C-W-11
AT24C64A-WB1.8-11	AT24C64C-WU-11 (Green only)
AT24C64A-WU1.8-11	AT24C64C-WU-11
AT24C64AW-10SU-1.8 BULK	AT24C64CN-SH-B (Recommend JEDEC SOIC for replacement)
AT24C64AW-10SU-2.7 SL383 (T&R)	AT24C64CN-SH-T (Recommend JEDEC SOIC for replacement)
AT24C64AN-10SU-1.8 BULK	AT24C64CN-SH-B
AT24C64AN-10SU-1.8 SL383 (T&R)	AT24C64CN-SH-T
AT24C64AN-10SU-2.7 BULK	AT24C64CN-SH-B
AT24C64AN-10SU-2.7 SL383 (T&R)	AT24C64CN-SH-T
AT24C64AY1-10YU-1.8	AT24C64CY6-YH-T
AT24C64AY6-10YH-1.8	AT24C64CY6-YH-T