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PCN / EOL Notification

Product Change Notification N	umber: CC0710	002	Date*: March 13, 2007	
Title: AT24C1024 DIE SHRINK				
Product Identification: All Wafers, Packages and Voltag See Attachment A	es of the AT24C1	024, Industrial Temp	erature Grade (-40C to +85C)	
Reason for Change:	⊠Design	☐ Proce	ssing	

Change Description:

Atmel has performed a die size reduction of the AT24C1024 in the Industrial Temperature (-40 to +85C). The new version device will be manufactured utilizing the .25u process versus the .35u process for the current AT24C1024. A NEW part number will be created by adding "B" to the suffix of the part identifier for the shrink: AT24C1024B.

Atmel has introduced a NEW 1.8V version for this AT24C1024B device. Atmel has also expanded the package offerings to include JEDEC SOIC and is first to market with an 8-lead TSSOP 1Mbit two-wire product offering. The clock frequency is optimized at lower Vcc, and the new AT24C1024B will operate at 400kHz at 1.8V & 1MHz at 2.5V versus 400kHz at 2.7V for the current AT24C1024 device. Note: we do not offer Vcc < 2.7V for the current version.

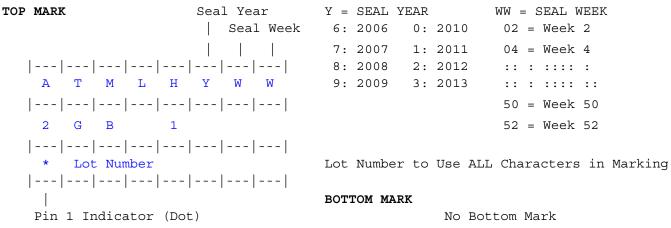
In addition, an extra device address pin (A2) has been added for expanded cascadability, which allows up to 4 devices (maximum serial EEPROM density) to share a common two-wire bus.

The new packaged devices will be offered in 1.8 and 2.5 voltages: (1.8V to 3.6V) and (2.5V to 5.5V). The dBGA2, die, and wafer sales will only be offered in 1.8V.

To accommodate the growing movement to Lead-Free products, the new shrink will ONLY be available in Pb-Free (Green) / Halogen-Free, and RoHS compliant packaging. The 8-SOIC, 8-TSSOP, and 8-ULTRA THIN SAP packages with NiPdAu lead finish will be designated by "H" in the catalogue part number. The 8-lead PDIP and dBGA2 with the Matte Tin lead finish will be designated by "U" in the catalogue part number.

New physical part marking scheme:

8-SOIC(1.8V)



8-SOIC(2.5V)

TOP	MARK					Sea	l Ye	ar
							Sea	l Week
	A	T	M	L	H	Y	W	W
	2	G	В		2			
	*	Lot	Nur	nber				
	Pin	1 In	dica	ator	(Dot	こ)		

Y =	SEAL	YEAR		WW	= 5	SEAL V	VEEK
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

8-TSSOP(1.8V)

TOP MARK

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

8-TSSOP(2.5V)

TOP MARK

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

8-PDIP(1.8V)

TOP	MARI	ζ				Seal	Yea	r
							Seal	Week
	Α	T	M	L	U	Y	W	W
	2	G	В		1			
	*	Lot	Nur	mber				
	Pin	1 Ir	ndica	ator	(Dot	t)		

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

8-PDIP(2.5V)

TOP	MARI	K				Seal	Yea	r
							Seal	Week
	Α	T	M	L	U	Y	W	W
	2	G	В		2			
	*	Lot	Nur	nber				
	Pin	1 Ir	ndica	ator	(Dot	t)		

Y =	SEAL	YEAR		WW	=	SEAL	WEEK
6:	2006	0:	2010	0	2 =	: Weel	ς 2
7:	2007	1:	2011	0	4 =	: Weel	ς 4
8:	2008	2:	2012	:	: :	::::	: :
9:	2009	3:	2013	:	: :	:::	: ::
				5	0 =	Weel	s 50
				5	2 =	Weel	c 52

Lot Number to Use ALL Characters in Marking

BOTTOM MARK

No Bottom Mark

8-Ultra Thin SAP (1.8V)

TOP	MARI	K			i		Yea: Seal 	r Week
	l			l				1
							W	•
	2	G	В	•	1	•		
	Lot	Nur	nber					
	*							
	Pin	1 Ir	ndica	ator	(Dot	:)		

8-Ultra Thin SAP (2.5V)

```
Seal Year
TOP MARK
                    Seal Week Y = SEAL YEAR WW = SEAL WEEK
   | | |
                                 6: 2006 0: 2010 02 = Week 2
7: 2007 1: 2011 04 = Week 4
    A T M L H Y W W
                                  8: 2008 2: 2012
                                                   :: : :::: :
   |---|---|---|
                              9: 2009 3: 2013
                                                    :: : :::: ::
    2 G B 2
                                                    50 = Week 50
   |---|---|---|
                                                    52 = Week 52
    Lot Number
   |---|---|
    Pin 1 Indicator (Dot)
dBGA2
TOP MARK
LINE 1---->
              2GBU
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 (ATMEL LOT
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NUMBERS TO CORRESPOND WITH ATK TRACE CODE LOG BOOK)

Identification Method to Distinguish Change:

There will be a NEW part number created by adding a "B" to the suffix of the catalogue part number: The AT24C1024 will now be AT24C1024B.

Qualification Data:	available	⊠ will be available in June-2007	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.

Proposed First Ship Date: June 25, 2007

Last Time Buy Date: September 25, 2007 Last Ship Date: March 25, 2008

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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^{*} All orders placed after the notification date are non-cancellable and non-returnable (NCNR).

Attachment A

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Current Part Number	Replacement Part Number
AT24C1024-10PU-2.7	AT24C1024B-PU25 (Bulk Only)
AT24C1024-W2.7-11	AT24C1024B-W-11
AT24C1024-W2.7-13	AT24C1024B-W-11
AT24C1024-W2.7-7	AT24C1024B-W-11
AT24C1024W-10SU-2.7 BULK	AT24C1024BW-SH25-B
AT24C1024W-10SU-2.7 SL383 (T&R)	AT24C1024BW-SH25-T (2k per reel)
	AT24C1024BY7-YH25-T (3k per reel)
AT24C1024C1-10CU-2.7 SL383 (T&R)	*Recommend SAP (Y7) package for
	replacement
AT24C1024Y4-10YU-2.7 SL383 (T&R)	AT24C1024BY7-YH25-T (3k per reel)