



PCN / EOL Notification

Product Change Notification Number: CC095106

Date*: February 10, 2010

Title: AT24C256B OPTIMIZED LAYOUT AND LOW-VOLTAGE

Product Identification:

All Wafers and Packages of the AT24C256B, Industrial Temperature Grade (-40C to +85C)

[See Attachment A](#)

Reason for Change:

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

Change Description:

Atmel has optimized the layout of the AT24C256B devices. The new devices are pin-to-pin and backward compatible with the current AT24C256B devices.

The NEW part numbers will be created by adding a "C" to the suffix of the part identifier: AT24C256C. Vcc will be expanded down to 1.7V. The new operating range will be from 1.7V to 5.5V.

The new packaged devices offered with the AT24C256C are as the following:

8-ball VFBGA (dBG2):	ROHS compliant/Lead-Free/Halogen-Free/Matte Tin 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 "C" to the suffix of the catalogue part number: The AT24C256B will now be AT24C256C.

Qualification Data:

☒ available	☐ will be available	☐ not applicable
☐ available	☒ will be available upon request	☐ 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: Now

Last Time Buy Date: July 8, 2010

Last Ship Date: January 8, 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

This is the listing for standard datasheet offering, PCN also applies to all (customer specific) special CAN part numbers that are not listed in the table below:

EOL Part Number	Replacement Part Number	Carrier Type
AT24C256B-PU	None	Bulk
AT24C256B-TH-B	AT24C256C-XHL-B	Bulk
AT24C256B-TH-T	AT24C256C-XHL-T	T/R
AT24C256BN-SH-B	AT24C256C-SSHL-B	Bulk
AT24C256BN-SH-T	AT24C256C-SSHL-T	T/R
AT24C256BW-SH-B	*AT24C256C-SSHL-B	Bulk
AT24C256BW-SH-T	*AT24C256C-SSHL-T	T/R
AT24C256BY7-YH-T	*AT24C256C-MAHL-T	T/R
AT24C256BU2-UU-T	AT24C256C-CUL-T	T/R
AT24C256B-W-11	AT24C256C-WWU11L	

*Suggested Replacement, please refer to datasheet for detailed specification.

- The PDIP is not recommended for new designs and as such will not appear on the datasheet, contact marketing to support legacy designs.
- The EIAJ wide body SOIC is no longer supported due to decreasing demand; please see the JEDEC SOIC as the replacement.

Attachment B

Top Side Marking

AT24C256C-CUL-T

TOP MARK
|---|---|---|---|
2 E C U
|---|---|---|---|
Y M T C
|---|---|---|---|
|<-- 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-L)
A = JANUARY
B = FEBRUARY
" " " " " " " " " " " "
J = OCTOBER
K = NOVEMBER
L = DECEMBER

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

AT24C256C-MAHL-T

TOP MARK
|---|---|---|
2 E C
|---|---|---|
H L @
|---|---|---|
Y T C
|---|---|---|
*
|
Pin 1 Indicator (Dot)

Y = YEAR OF ASSEMBLY

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

Y = SEAL YEAR
8: 2008 0: 2012 @ = Country of
9: 2007 1: 2013 Assembly
0: 2010 2: 2014
1: 2011 3: 2015

AT24C256C-SSHL-T/B

TOP MARK

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

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

AT24C256C-XHL-T/B

TOP MARK

Pin 1 Indicator (Dot)

	---		---		---		---
*	A	T	H	Y	W	W	
	---		---		---		---
	2	E	C	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	52 = Week 52

@ = Country of Assembly
No Bottom Mark