



PCN / EOL Notification

Product Change Notification Number: CC063501

Date: September 6, 2006

Title: AT24C16A Die Shrink

Product Identification:

All Wafers, Packages, and Voltages of the AT24C16A, Industrial Temperatures.
See Attachment A

Reason for Change:

Design Processing Logistics
 Manufacturing Location Quality/Reliability Material

Change Description:

Atmel has performed a die size reduction of the AT24C16A 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 AT24C16A. A NEW part number will be created by adding a "B" to the suffix of the part identifier for the shrink: AT24C16B.

Atmel has also optimized the clock frequency at lower Vcc. New device will be offered in 1.8 voltage only. The new Vcc range will be from 1.8V to 3.6V.

In addition, to accommodate the growing movement to Lead-Free packaged products, the new shrink will ONLY be available in Lead-Free / Halogen-Free. 8-SOIC, 8-TSSOP, and 8-ULTRA THIN MINI-MAP packages will consist of NiPdAu Lead Finish, designated by "H" in the catalogue part number.

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 AT24C16A will now be AT24C16B.

Qualification Data: available will be available in Q3-2006 not applicable
Samples: available will be available in WW 35 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*: December 6, 2006

Last Time Buy Date: February 28, 2007

Last Ship Date: August 28, 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 |
|---------------------------|-------------------------------|
| AT24C16A-10PU-1.8 | AT24C16B-PU |
| AT24C16A-10PU-2.7 | AT24C16B-PU |
| AT24C16A-10TU-1.8 | AT24C16B-TH-B (bulk) |
| AT24C16A-10TU-1.8 SL383 | AT24C16B-TH-T (tape & reel) |
| AT24C16A-10TU-2.7 | AT24C16B-TH-B (bulk) |
| AT24C16A-10TU-2.7 SL383 | AT24C16B-TH-T (tape & reel) |
| AT24C16A-W1.8-11 | AT24C16B-W-11 |
| AT24C16A-W1.8-27 | AT24C16B-W-11 |
| AT24C16A-W1.8-7 | AT24C16B-W-11 |
| AT24C16A-W2.7-11 | AT24C16B-W-11 |
| AT24C16A-W2.7-7 | AT24C16B-W-11 |
| AT24C16A-W2.7-9 | AT24C16B-W-11 |
| AT24C16AN-10SU-1.8 | AT24C16BN-SH-B (bulk) |
| AT24C16AN-10SU-1.8 SL383 | AT24C16BN-SH-T (tape & reel) |
| AT24C16AN-10SU-2.7 | AT24C16BN-SH-B (bulk) |
| AT24C16AN-10SU-2.7 SL383 | AT24C16BN-SH-T (tape & reel) |
| AT24C16AU2-10UU-1.8 SL383 | AT24C16BU3-UU-T (tape & reel) |
| AT24C16AY1-10YU-1.8 SL383 | AT24C16BY6-YH-T (tape & reel) |
| AT24C16AY5-10YU-1.8 SL383 | AT24C16BY6-YH-T (tape & reel) |
| AT24C16AY6-10YH-1.8 SL383 | AT24C16BY6-YH-T (tape & reel) |