



PCN / EOL Notification

PCN Number: CC135103

Notification Date*: December 27, 2013

Title: 2-Kbit Two-wire Interface Industrial Temperature Grade (-40C to 85C) Serial EEPROM (AT24C02C) Layout Optimization and Device Enhancement

Product Identification:

All Packages of the Industrial Temperature Grade (-40C to +85C) AT24C02C

Reason for Change:

- ☒ Material / Composition
- ☐ Processing / Manufacturing
- ☒ Design / Firmware
- ☐ Datasheet

- ☐ Manufacturing Location
- ☐ Quality / Reliability
- ☐ Logistics
- ☐ Other:

Change Description:

Atmel has optimized the layout of the Serial EEPROM Industrial Temperature Grade (-40C to +85C) AT24C02C device (Two-wire interface, 2-Kbit density). The catalog part number AT24C02C will be replaced by AT**24C02D** (see Table 1). The new devices are pin-to-pin and functionally backward compatible with the current AT24C02C devices with the following exception and enhancement.

VCC Operation

With a growing number of application segments moving to lower supply voltages, Atmel is developing next generation devices to meet the needs of these lower voltages. These voltage ranges are used by various MCUs, SoCs, and ASICs as process lithographies for such products continue to reduce. To address these voltage requirements, Atmel has designed the AT**24C02D** devices to operate over a **1.7V** to **3.6V** range versus the previous 1.7V to 5.5V range.

Copper (Cu) bond wire usage

In order to increase manufacturing flexibility and to ensure a long-term continuity of supply, Atmel will manufacture (SOIC, TSSOP, SOT23 and UDFN) packages using copper bond (Cu) wire.

Identification Method to Distinguish Change:

NEW catalog part numbers of AT24C02C changes to AT24C02D. Please refer to Attachment A for part marking scheme.

Table 1

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	Replace Part Number	Package	Carrier Type
AT24C02C-PUM	AT24C02D-PUM	PDIP	Bulk
AT24C02C-SSH-M-B	AT24C02D-SSH-M-B	JEDEC SOIC	Bulk
AT24C02C-SSH-M-T	AT24C02D-SSH-M-T	JEDEC SOIC	T/R, 4K per reel
AT24C02C-XHM-B	AT24C02D-XHM-B	TSSOP	Bulk
AT24C02C-XHM-T	AT24C02D-XHM-T	TSSOP	T/R, 5K per reel
AT24C02C-MAHM-T	AT24C02D-MAHM-T	UDFN	T/R, 5K per reel
AT24C02C-STUM-T	AT24C02D-STUM-T	SOT23	T/R, 5K per reel
AT24C02C-CUM-T	AT24C02D-CUM-T	VFBGA	T/R, 5K per reel
AT24C02C-WWU11M	AT24C02D-WWU11M	Wafer Sales	
AT24C02C-WWU27M	AT24C02D-WWU27M	Wafer Sales	

Qualification Data:	☒ Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:	☒ Available SOT23/VFBGA Feb 14'	☐ Will be available (mm/dd/yr):	☐ Not Applicable

Quantifiable Impact on Quality & Reliability:

No impact. Form, fit and function remains unchanged.

Forecasted Availability Date: December 2013

Last Time Buy Date: June 20, 2014

Last Ship Date: December 20, 2014

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

Atmel Contact: Please contact your Atmel Sales Representative or Distributor for additional information (when replying via e-mail please include the PCN number in subject line).

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