



PCN / EOL Notification

PCN Number: CC130302

Notification Date: January 25, 2013

Title: 16-Kbit SPI interface Automotive Grade (-40C to 125C) Serial EEPROM (AT25160A) Process Geometric Shrink and Device Enhancements

Product Identification:

All Packages of the Automotive Temperature Grade (-40C to +125C) AT25160A.

Reason for Change:

- ☒ Material / Composition
☒ Processing / Manufacturing

- ☒ Design / Firmware
☐ Logistics

- ☐ Manufacturing Location
☐ Quality / Reliability

Change Description:

Atmel has performed a process geometry shrink of the Serial EEPROM Automotive Temperature Grade AT25160A device (SPI interface, 16-Kbit density) from 0.35µm to 0.25µm. The catalog part number AT25160A will be replaced by AT25160B (see Table 1). The new devices are pin-to-pin and functionally backward compatible with the current AT25160A devices with the following exceptions and enhancements.

Extended-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 AT25160B devices to operate over a 2.5V to 5.5V range versus the previous 2.7V to 5.5V range.

Conversion to Nickel-Palladium-Gold (NiPdAu) lead finish

New devices will be available in the more robust NiPdAu lead finish. The NiPdAu lead finish complies with “green” packaging standards, and all package options remain RoHS compliant and Pb/Halide/Halogen-free. The “P” designation as part of the package designator suffix in the catalog part number identifies the NiPdAu lead finish for Automotive Temperature grade product.

Package material set changes

Atmel assembly subcontractor, Amkor Technology Philippines, SOIC and TSSOP package material sets will change as noted in the following table:

ATP	SOIC		TSSOP	
	From	To	From	To
Die Attach	Ablebond 84-1 LMISR4	Ablebond 8290	Ablebond 8290	No Change
Wire Diameter	0.8 mil Au	0.6 mil Au	0.8 mil Au	No Change
Mold Compound	Sumitomo EME-G700	Nitto-GE900S	Sumitomo EME-G700	Hitachi CEL-8240HF 10P
Lead Finish	Matte Sn	NiPdAu	Matte Sn	NiPdAu

Delivery Options

To further stream line the shipping and handling process, Atmel is eliminating bulk delivery options. The new AT25160B devices will be offered in Tape and Reel only.

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Identification Method to Distinguish Change:

New catalog part numbers use "B" suffix for the device revision (AT25160A changes to AT25160B). 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	Replacement Part Number	Package	Carrier Type
AT25160AN-10SQ-2.7 ¹	AT25160B-SSPD-T ³	SOIC	T/R, 4K per reel
AT25160AN-10SQ-2.7 SL383 ²	AT25160B-SSPD-T ³	SOIC	T/R, 4K per reel
AT25160A-10TQ-2.7 ¹	AT25160B-XPD-T ³	TSSOP	T/R, 5K per reel
AT25160A-10TQ-2.7 SL383 ²	AT25160B-XPD-T ³	TSSOP	T/R, 5K per reel

Notes:

1. Bulk will no longer be an ordering option, Tape and Reel ordering only offered
2. SL383 will be eliminated and replaced with "-T" to denote Tape and Reel
3. Please reference qualification pack for further details

Qualification Data:	☒ Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable
Samples:	☒ Available	☐ Will be available (mm/dd/yr):	☐ Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date: Available now

Last Time Buy Date: July 30, 2013

Last Ship Date: January 30, 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 PCN number in subject line).

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Attention Distributors: Product(s) identified in this notification will become obsolete and as such this EOL notification will act as the official written notification. All obsolete products will be listed in the next published quarterly distributor price book, following an PCN/EOL change, and listed on the obsolescence form which accompanies said price book. Within thirty (30) days from the published date of the price book, Distributor shall notify Atmel in writing of Distributor's then current inventory of the obsolete product

CUSTOMER ACKNOWLEDGEMENT OF RECEIPT: Atmel requests you acknowledge receipt of this PCN / EOL. Please complete and email to pcnadm@atmel.com and the Atmel Contact listed above. In your acknowledgement, you can grant approval or request additional information. **Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice.**

Company:

Name:

Title:

Date:

Email

Address:

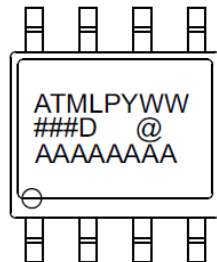
Location:

Comments:

Attachment A

8 lead SOIC

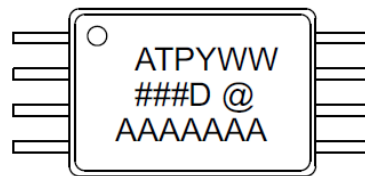
3 Rows of 8 Characters



8 lead TSSOP

3 Rows

2 of 6 and 1 of 7 Characters



Catalog Number: AT25080B
Catalog Number: AT25160B
Catalog Number: AT25320B
Catalog Number: AT25640B

Catalog Truncation: ### = 58B
Catalog Truncation: ### = 5AB
Catalog Truncation: ### = 5BB
Catalog Truncation: ### = 5CB

Date Codes			Voltages
Y = Year	M = Month	WW = Work Week of Assembly	D: 2.5v min
2: 2012 6: 2016	A: January	02: Week 2	
3: 2013 7: 2017	B: February	04: Week 4	
4: 2014 8: 2018	" " "	" " "	
5: 2015 9: 2019	L: December	52: Week 52	
Trace Code			Grade/Lead Finish Material
XX = Trace Code (ATMEL Lot Numbers to Correspond to Code) (e.g. XX: AA, AB...YZ, ZZ)			P: Automotive/NiPdAu
Lot Number			ATMEL Truncation
AAAAAAA = ATMEL Wafer Lot Number			
Country of Assembly			
@ = Country of Assembly			AT: ATMEL ATM: ATMEL ATML: ATMEL

2/2/12

Atmel Package Mark Contact: DL-CSO-Assy_eng@atmel.com	TITLE 25080-16-32-64BAM, AT25080B/AT25160B/ AT25320B/AT25640B Automotive Marking Information for Package Offering	DRAWING NO.	REV.
		25080-16-32-64BAM	A