



PCN / EOL Notification

Product Change Notification Number: PDF007

Notification Date: August 21, 2013

Title: 4-Mbit DataFlash® (AT45DB041D) Process Geometry Shrink and Device Enhancement

Product Identification:

All wafer and package options of the Industrial Temperature grade (-40°C to +85°C) AT45DB041D

Reason for Change:	☐ Material / Composition	☒ Design / Firmware	☒ Manufacturing Location
	☒ Processing / Manufacturing	☐ Logistics	☐ Quality/Reliability

Change Description:

Adesto has performed a process geometry shrink and feature set enhancement of the 4-Mbit AT45DB041D DataFlash®. The catalog part number AT45DB041D will be replaced by AT45DB041E (see Table 1). The new AT45DB041E devices are pin-to-pin and functionally backward compatible with the current AT45DB041D devices with the following exceptions and enhancements.

Extended-VCC Operation

Adesto has designed the AT45DB041E devices to operate over a 1.65V to 3.6V range versus the previous 2.5V to 3.6V range options on the D series devices.

"Power of 2" binary page size option

The "power of 2" binary page size option can still be ordered as a factory-configured option. However, the catalog part number suffixes of SL954 and SL955 for the factory-configured option will no longer be used. The new Binary Page Mode option will be defined by the ordering code suffix '2B' incorporated into the base part number. As part of this part number change, Binary Page mode options will be limited to T&R orders only. Please refer to Table 1 for the new catalog part number for the factory-programmed "power of 2" binary page mode option.

Migration to a 5-byte Manufacturer and Device ID

The length of the complete Manufacturer and Device ID string has been extended from 4 bytes to 5 bytes to provide space for additional device information. The ID methodology still complies with the JEDEC standard and now utilizes the Extended Device Information (EDI) field. The Manufacturer and Device ID string changes as follows:

AT45DB041D: 1Fh + 24h + 00h + 00h

AT45DB041E: 1Fh + 24h + 00h + 01h + 00h

Lead Finish

The lead finish has been changed from Matte Sn to NiPdAu.

Identification Method:

New catalog part numbers use an "E" suffix for the device revision (AT45DB041D changes to 45DB041E).

Table 1:

EOL Part Number	Replacement Part Number	Carrier Type
AT45DB041D-MU	AT45DB041E-MHN-Y	Y for Tray
	AT45DB041E-MHN-T	T for T/R
AT45DB041D-MU-2.5	AT45DB041E-MHN-Y	Y for Tray
	AT45DB041E-MHN-T	T for T/R
AT45DB041D-MU SL954	AT45DB041E-MHN2B-T	Only T/R offered
AT45DB041D-MU SL955		
AT45DB041D-SSU	AT45DB041E-SSHN-B	B for Bulk
	AT45DB041E-SSHN-T	T for T/R
AT45DB041D-SSU-2.5	AT45DB041E-SSHN-B	B for Bulk
	AT45DB041E-SSHN-T	T for T/R
AT45DB041D-SSU SL954	AT45DB041E-SSHN2B-T	Only T/R offered
AT45DB041D-SSU SL955		
AT45DB041D-SU	AT45DB041E-SHN-B*	B for Bulk
	AT45DB041E-SHN-T*	T for T/R
AT45DB041D-SU-2.5	AT45DB041E-SHN-B*	B for Bulk
	AT45DB041E-SHN-T*	T for T/R
AT45DB041D-SU SL954	AT45DB041E-SHN2B-T*	Only T/R offered
AT45DB041D-SU SL955		
AT45DB041D-DWF	AT45DB041E-DWF	Whole Wafer, No Back Grind

Notes:

* Narrow Body SOIC Package (SSHN) is recommended for new designs.

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 (AT45DB041E): Now

Last Time Buy Date (AT45DB041D): January 31, 2014

Last Ship Date (AT45DB041D): July 31, 2014

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

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