



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: | <input type="checkbox"/> Material / Composition | <input checked="" type="checkbox"/> Design / Firmware | <input checked="" type="checkbox"/> Manufacturing Location |
| | <input checked="" type="checkbox"/> Processing / Manufacturing | <input type="checkbox"/> Logistics | <input type="checkbox"/> 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-SSH-N-B | B for Bulk |
| | AT45DB041E-SSH-N-T | T for T/R |
| AT45DB041D-SSU-2.5 | AT45DB041E-SSH-N-B | B for Bulk |
| | AT45DB041E-SSH-N-T | T for T/R |
| AT45DB041D-SSU SL954 | AT45DB041E-SSH-N2B-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 (SSH-N) is recommended for new designs.

| | | | |
|--|---|--|---|
| Qualification Data: | <input checked="" type="checkbox"/> Available | <input type="checkbox"/> Will be available (mm/dd/yr): | <input type="checkbox"/> Not Applicable |
| Samples: | <input checked="" type="checkbox"/> Available | <input type="checkbox"/> Will be available (mm/dd/yr): | <input type="checkbox"/> Not Applicable |
| Quantifiable Impact on Quality & Reliability: | | | |
| None | | | |
| <p>Forecasted Availability Date (AT45DB041E): Now</p> <p>Last Time Buy Date (AT45DB041D): January 31, 2014</p> <p>Last Ship Date (AT45DB041D): July 31, 2014</p> <p>*All orders placed after the notification date are non-cancellable and non-returnable (NCNR).</p> | | | |
| Adesto Contact: PCNsupport@adestotech.com | | | |

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