



PCN / EOL Notification

Product Change Notification Number: **PDF009**

Notification Date: **Sept 10, 2013**

Title: 8-Mbit DataFlash® (AT45DB081D) Process Geometry Shrink and Device Enhancement

Product Identification:

All wafer and package options of the Industrial Temperature grade (-40°C to +85°C) AT45DB081D

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 8-Mbit AT45DB081D DataFlash®. The catalog part number AT45DB081D will be replaced by AT45DB081E (see Table 1). The new AT45DB081E devices are pin-to-pin and functionally backward compatible with the current AT45DB081D devices with the following exceptions and enhancements.

Extended-VCC Operation

Adesto has designed the AT45DB081E 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:

AT45DB081D: 1Fh + 25h + 00h + 00h

AT45DB081E: 1Fh + 25h + 00h + 01h + 00h

Lead Finish

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

Binary Page Mode Delivery Options

The Binary Page Mode Option SL954 and SL955 will be combined and will only be supported in Tape & Reel Delivery (Carrier Type)

Identification Method:

New catalog part numbers use an "E" suffix for the device revision (AT45DB081D changes to 45DB081E).

Table 1:

EOL Part Number	Replacement Part Number	Carrier Type
AT45DB081D-MU	AT45DB081E-MHN-Y AT45DB081E-MHN-T	-Y for Tray -T for Tape & Reel
AT45DB081D-MU-SL954 AT45DB081D-MU-SL955	AT45DB081E-MHN2B-T	-T for Tape & Reel Only
AT45DB081D-SSU	AT45DB081E-SSH-N-B AT45DB081E-SSH-N-T	-B for Tube -T for Tape & Reel
AT45DB081D-SSU-SL954 AT45DB081D-SSU-SL955	AT45DB081E-SSH2B-T	-T for Tape & Reel Only
AT45DB081D-SU	AT45DB081E-SHN-B AT45DB081E-SHN-T	-B for Tube -T for Tape & Reel
AT45DB081D-SU-SL954 AT45DB081D-SU-SL955	AT45DB081E-SHN2B-T	-T for Tape & Reel Only
AT45DB081D-MU-2.5	AT45DB081E-MHN-Y AT45DB081E-MHN-T	-Y for Tray -T for Tape & Reel
AT45DB081D-SSU-2.5	AT45DB081E-SSH-N-B AT45DB081E-SSH-N-T	-B for Tube -T for Tape & Reel
AT45DB081D-SU-2.5	AT45DB081E-SHN-B AT45DB081E-SHN-T	-B for Tube -T for Tape & Reel
AT45DB081D-DWF	AT45DB081E-DFW	Whole Wafer. No Backgrind

Notes:

- 1) **Narrow Body SOIC Package (SSH-N)** is recommended for new designs.
- 2) **Wide Body SOIC (SHN)** will be supported for legacy designs.
- 3) The Carrier Type is not marked on the package
- 4) Table 1 lists standard Datasheet part numbers only for reference.
- 5) This PCN covers all SL codes, Customer Applied Numbers (CAN codes) and Customer Specific Part Number options.

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 checked="" type="checkbox"/> Will be available October 15, 2013	<input type="checkbox"/> Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date (AT45DB081E): October 31, 2013**Last Time Buy Date (AT45DB081D):** January 31, 2014**Last Ship Date (AT45DB081D):** July 31, 2014

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

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