



PCN / EOL Notification

Product Change Notification Number: SC120701

Notification Date*: March 6, 2012

Title: 8-Mbit Serial Flash (AT25DF081, 1.65V to 1.95V) Process Geometry Shrink and Discontinuance of 11-Ball dBGA (WLCSP) Package Offering

Product Identification:

All package options of the Industrial Temperature Grade (-40°C to +85°C) AT25DF081
Replacement parts numbers are shown in Table 1.

Reason for Change:

☒ Material / Composition	☒ Design / Firmware	☐ Manufacturing Location
☒ Processing / Manufacturing	☐ Logistics	☐ Quality / Reliability

Change Description:

Atmel has performed a geometric process shrink of the AT25DF081 Serial Flash (8-Mbit density, 1.65V to 1.95V) from **130nm** to **110nm**. The catalog part number AT25DF081 will be replaced by AT25DL081.

The new devices are pin-to-pin and backward compatible with the current 25DF081 devices.

The 11-ball dBGA (WLCSP) is being replaced with an 8-ball dBGA (WLCSP), since the 8-ball utilizes the same active ball matrix layout (the center 8 balls) as the 11-ball package. Please contact Atmel for the Package Outline Drawings for the 11-ball and 8-ball dBGA packages.

Table 1 below cross references the current and new part numbers.

Table 1

Current Part Number	New Part Number
AT25DF081-MHN-T	AT25DL081-MHN-T
AT25DF081-MHN-Y	AT25DL081-MHN-Y
AT25DF081-SSHN-B	AT25DL081-SSHN-B
AT25DF081-SSHN-T	AT25DL081-SSHN-T
AT25DF081-UUN-T	AT25DL081-UUN-T

Attachment A provides a basic key feature comparison between the current and new devices.

Datasheets for both the old and new devices can be found @

http://www.atmel.com/products/memories/sflash/default.aspx?tab=documents&Asset_Type=010 Datasheet

[<CLICK OR SCAN HERE>](#)



www.atmel.com

Identification Method to Distinguish Change:

New catalog part numbers will be identifiable by the root part number code (AT25~~DF~~081 changes to AT25~~DL~~081). Please refer to Table 1 for catalog part number changes.

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: The new devices are form, fit and functionally equivalent to the current devices, which meet all datasheet specifications.

Forecasted Availability Date: Now

Last Time Buy Date: August 31, 2012

Last Ship Date: February 28, 2013

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

Atmel Contact: pcnadm@atmel.com

Information provided herein is in connection with Atmel products and this information is provided "AS IS". Atmel assumes no responsibility for any errors that may appear in this document. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Atmel's Terms and Conditions of Sale for such products, Atmel assumes no liability whatsoever, and Atmel disclaims any express or implied warranty, including liability or warranties relating to fitness for a particular purpose, merchantability, or non-infringement of any patent, copyright or other intellectual property right. Atmel products are not intended for use in a product or system intended to support or sustain life which, if it fails, can be reasonably expected to result in significant personal injury. Atmel may make changes to specifications and product descriptions at any time, without notice.

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 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

Key Feature Set Comparison		
	AT25DF081	AT25DL081
VCC Range	1.65V to 1.95V	1.65V to 1.95V
Maximum CLK Frequency	66MHz SPI	85Mhz SPI 100Mhz RapidS™
Interface Options	SPI	SPI, RapidS™, Dual I/O
OTP Protection Register (e-S/N)	N/A	128Byte = (64Byte factory + 64Byte User)
Flexible Erase Architecture	– Uniform 4KB block erase – Uniform 32KB block erase – Uniform 64KB block erase – Full chip erase	– Uniform 4KB block erase – Uniform 32KB block erase – Uniform 64KB block erase – Full chip erase
Individual Sector Protection	– 16 sectors of 64KB each	– 16 sectors of 64KB each
Sector Lockdown	N/A	– Any combination of 64KB sectors permanently read-only
Fast Program Erase Times	– 1.0ms typical page program (256 bytes) – 50ms typical 4KB block erase time – 350ms typical 32KB block erase time – 600ms typical 64KB block erase time	– 1.0ms typical page program (256 bytes) – 50ms typical 4KB block erase time – 250ms typical 32KB block erase time – 550ms typical 64KB block erase time
Program Erase Suspend Resume	N/A	YES
Low Power Operation	– 7mA active read current (@ 20MHz) – 8µA deep power-down current (typical)	– 10mA active read current (@ 20MHz) – 8µA deep power-down current (typical)
Software RESET	N/A	YES
JEDEC Device / Manufacturer ID	1Fh	1F
JEDEC Device ID (Byte 1)	45h	45h
JEDEC Device ID (Byte 2)	02h	02H
JEDEC Extended Device Information	00h	01h
	N/A	00h
Endurance	100K cycles	100K Cycles
Data Retention	20years	20Years
Operating Temperature Range	-40°C to +85°C	-40°C to +85°C
Package Options	– 8-lead SOIC (0.150" Wide Body) – 8-pad ultra thin DFN (5 x 6 x 0.6mm) – 11-ball dBGa (WLCSP)	– 8-lead SOIC (0.150" Wide Body) – 8-pad ultra thin DFN (5 x 6 x 0.6mm) – 8-ball dBGa (WLCSP)
This is a basic comparison of key features. Please refer the product datasheets for a full specification comparison		