



PCN / EOL Notification

Product Change Notification Number: PSF014

Notification Date: January 16, 2014

Title: 512kbit Serial Flash (AT25F512B and AT25BCM512B) Process Geometry Shrink and Device Enhancement

Product Identification:

All wafer and package options of the Industrial Temperature grade(-40°C to +85°C) AT25F512B & AT25BCM512B

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

URGENT QUALIFICATION REQUIRED DUE TO LFOUNDRY CLOSURE (NO LTB DATE)
 (Refer to Adesto Document # AD011014 <http://www.adestotech.com/pcns>)

Change Description:

Adesto has performed a process geometry shrink and feature set enhancement of the 512kbit AT25F512B and AT25BCM512B Serial Flash from .13um to .11um. The catalog part number AT25F512B & AT25BCM512B will be replaced by AT25DN512C (see Table 1). The new AT25DN512C devices are pin-to-pin and functionally backward compatible with the current AT25F512B and AT25BCM512B devices with the following exceptions and enhancements.

Extended-VCC Operation

Adesto has designed the AT25DN512C devices to operate over a 2.3V to 3.6V range versus the previous 2.7V to 3.6V range options on the AT25F512B and AT25BCM512B series of devices.

Dual Output Read and Speed Improvement

The new AT25DN512C supports dual output read. The maximum operating frequency is enhanced to 85Mhz versus previous 70Mhz on the AT25F512B and AT25BCM512B.

Software Reset and 256 Byte Page Erase Added

A software controlled reset and a uniform 256-Byte page erase function have been added to the new AT25DN512C device.

Ultra Deep Power Down Mode Added

A new software controlled ultra deep power down mode has been added to the AT25DN512C.

Moisture Sensitivity Level (MSL) Rating

The MSL rating will be Level 3 or better on all packages and part numbers.

Identification Method:

New catalog part numbers use AT25DN and suffix "C" for the device revision. AT25F512B and

AT25BCM512B are changed to AT25DN512C.

Table 1:

EOL Part Number	Replacement Part Number	Carrier Type
AT25F512B-MAH-Y	AT25DN512C-MAHF-Y	Y for Tray
AT25F512B-MAH-T	AT25DN512C-MAHF-T	T for T/R
AT25F512B-SSH-B	AT25DN512C-SSHF-B	B for Bulk
AT25F512B-SSH-T	AT25DN512C-SSHF-T	T for T/R
AT25F512B-XH-B	AT25DN512C-XMHF-B	B for Bulk
AT25F512B-XH-T	AT25DN512C-XMHF-T	T for T/R
AT25BCM512B-MAH-T	AT25DN512C-MAHF-T	T for T/R

Notes:

1. The carrier type is not marked on the package.
2. Table 1 lists standard datasheet part numbers only.
3. This PCN covers all applicable AT25F512B and AT25BCM512B: SL codes, Customer Applied Numbers (CAN codes), and customer specific part numbers.

Qualification Data:	<input type="checkbox"/> Available	<input checked="" type="checkbox"/> Will be available (mm/dd/yr):5/7/14	<input type="checkbox"/> Not Applicable
Samples:	<input type="checkbox"/> Available	<input checked="" type="checkbox"/> Will be available (mm/dd/yr):4/2/14	<input type="checkbox"/> Not Applicable

Quantifiable Impact on Quality & Reliability:

None

Forecasted Availability Date (AT25DN512C): May 7, 2014

Last Time Buy Date (AT25F512B): Due to the closure of LFoundry, Adesto cannot guarantee availability of the affected products. No Last Time Buy is available. **Contact Adesto Sales. (Refer to Adesto Document # AD011014 <http://www.adestotech.com/pcns>).**

Adesto Contact: PCNsupport@adestotech.com

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