



PCN / EOL Notification

Product Change Notification Number: SC095104

Date*: December 18, 2009

Title: AT26DF321 and AT25DF321 Migration to 110nm Process Node

Product Identification:

AT26DF321 and AT25DF321- All valid options

Please refer to a complete list of part numbers below.

Reason for Change:

- | | | |
|---|--|------------------------------------|
| <input checked="" type="checkbox"/> Design | <input checked="" type="checkbox"/> Processing | <input type="checkbox"/> Logistics |
| <input type="checkbox"/> Manufacturing Location | <input type="checkbox"/> Quality/Reliability | <input type="checkbox"/> Material |

Change Description:

The Atmel 32Mbit SPI Serial Flash AT26DF321 and AT25DF321 are migrating from our 130nm CMOS process to the 110nm process node. Several new features and enhancements have been made. The new device **AT25DF321A** supports additional features, such as individual sector protection, sector lock down, 128 byte security register with 64 byte unique ID number, Dual-Input program and Dual-Output Read operations. All packages have the Nickel Palladium Gold (NiPdAu) lead finish, Halide free and RoHS compliant. The 16 pin SOIC package option will be discontinued due to low market demand. A table of feature set comparison is listed below.

Feature Set Comparison	AT26DF321	AT25DF321	AT25DF321A
	(EOL)	(EOL)	New
DUAL-INPUT PROGRAM (opcode A2h)	—	—	✓
DUAL-OUTPUT READ (opcode 3Bh)	—	—	✓
MAX. CLOCK FREQ.			
All opcodes (except 03h, 3Bh, 6Bh)	66MHz	70MHz	85MHz
Dual-Output Read (opcode 3Bh)	—	—	85MHz
Read Array (<i>RapidS</i>) (opcode 1Bh)	—	—	100MHz
Read Array (opcode 0Bh)	66MHz	70MHz	85MHz
Read Array (low freq.) (opcode 03h)	33MHz	34MHz	50MHz
INDIVIDUAL SECTOR LOCKDOWN	—	—	✓
128-BYTE SECURITY REGISTER	—	—	✓
MANUFACTURER/DEVICE ID (opcode 9Fh)			
Manufacturer ID	1Fh	1Fh	1Fh
Device ID Byte 1	47h	47h	47h
Device ID Byte 2	00h	00h	01h
EDI String Length	00h	00h	00h
PACKAGE OPTIONS			
8-SOIC-W (wide 200-mil)	Pin 7 is NC	Pin 7 is Hold\	Pin 7 is Hold\
8-UDFN-N (5mm x 6mm)	—	—	✓
16-SOIC (300-mil)	✓	✓	—

Identification Method to Distinguish Change:

EOL Part Number	Replacement Part Number
AT26DF321-SU	AT25DF321A-SH-B AT25DF321A-SH-T
AT26DF321-S3U	No replacement
AT25DF321-SU	AT25DF321A-SH-B AT25DF321A-SH-T
AT25DF321-S3U	No replacement
Not previously offered	AT25DF321A-MH-Y AT25DF321A-MH-T

- B=Bulk Shipment in Tube
- T=Shipment in Tape and Reel
- Y=Bulk Shipment in Tray

Qualification Data: available will be available in WW____ not applicable
Samples: available will be available in WW____ not applicable

Quantifiable Impact on Quality & Reliability:

None

Estimated Availability Date: March 15 2010
Last time Buy Date: June 15, 2010
Last Ship Date: Dec. 15, 2010

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

Atmel Contact: pcnadm@atmel.com

Atmel will deem this change accepted unless specific conditions of acceptance are provided in writing within 30 days from the date of this notice. All correspondence must be sent to the Quality Contact e-mail address listed above.

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