## PCN / EOL Notification

Product Chang	ge Notification Number: PDF008	Notifica	Notification Date: August 21, 2013		
Title: 32-Mbit I	DataFlash® (AT45DB321D) Process	Geometry Shrink and Devic	e Enhancement		
Product Ident	ification: ackage options of the Industrial Tem	poraturo grado (-40°C to ±8			
Reason for	Material / Composition				
Change:	Processing / Manufacturing	Design / Firmware	Manufacturing Location		
			Quality/Reliability		
Change Deso	cription:				
DataFlash®. AT45DB321E	erformed a process geometry shrink a The catalog part number AT45DB321 devices are pin-to-pin and functiona he following exceptions and enhance	D will be replaced by AT45	DB321E (see Table 1). The new		
	<u>C Operation</u> esigned the AT45DB321E devices to options on the D series devices.	operate over a 2.3V to 3.6V	<sup>/</sup> range versus the previous 2.5V		
The "power or catalog part n new Binary Pa number. As p	inary page size option f 2" binary page size option can still b umber suffixes of SL954 and SL955 age Mode option will be defined by th part of this part number change Binary o Table 1 for the new catalog part nu	for the factory-configured op le ordering code suffix '2B' i y Page mode options will be	otion will no longer be used. The ncorporated into the base part limited to T&R orders only.		
The length of provide space now utilizes th follows: AT45DB321D	5-byte Manufacturer and Device ID the complete Manufacturer and Device of additional device information. Th the Extended Device Information (EDI) : 1Fh + 27h + 00h + 00h : 1Fh + 27h + 00h + 01h + 00h	e ID methodology still comp	lies with the JEDEC standard and		
<u>Lead Finish</u> The lead finis	h has been changed from Matte Sn to	o NiPdAu.			

## Identification Method:

New catalog part numbers use an "E" suffix for device revision (AT45DB321D changes to AT45DB321E).

Table 1:

EOL Part Number	Replacement Part Number	Carrier Type	
AT45DB321D-CU	AT45DB321E-CCUF-T*	T for T/R	
AT45DB321D-MU	AT45DB321E-MHF-Y	Y for Tray	
A143003210-1010	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MU-SL954	AT45DB321E-MHF2B-T	Only T/R offered	
AT45DB321D-MU-SL955			
AT45DB321D-MU-2.5	AT45DB321E-MHF-Y	Y for Tray	
A143003210-1010-2.3	AT45DB321E-MHF-T	T for T/R	
AT45DB321D-MWU	AT45DB321E-MWHF-Y	Y for Tray	
	AT45DB321E-MWHF-T	T for T/R	
AT45DB321D-MWU-SL954	AT45DB321E-MWHF2B-T	Only T/R offered	
AT45DB321D-MWU-SL955			
AT45DB321D-SU	AT45DB321E-SHF-B	B for Bulk	
A143003210-30	AT45DB321E-SHF-T	T for T/R	
AT45DB321D-SU SL954	AT45DB321E-SHF2B-T	Only T/R offered	
AT45DB321D-SU SL955			
	AT45DB321E-SHF-B	B for Bulk	
AT45DB321D-SU-2.5	AT45DB321E-SHF-T	T for T/R	
AT45DB321D-TU	No offering in TSOP. Recommend SOIC EOL		
AT45DB321D-DWF	AT45DB321E-DWF Whole Wafer, No Back Grin		

Notes:

\* BGA package changed from 24-Ball BGA for the 45DB321D to a 9-Ball BGA for the 45DB321E. The 9-Ball BGA utilizes the same

center 9 balls (3 x 3 ball matrix) of the 24-Ball BGA footprint. Therefore, no PCB change is required.

Qualification Data:	$\square$	Available	Will be available (mm/dd/yr):	Not Applicable
Samples:	$\boxtimes$	Available	Will be available (mm/dd/yr):	Not Applicable

Quantifiable Impact on Quality & Reliability: None

Forecasted Availability Date (AT45DB321E): Now Last Time Buy Date (AT45DB321D): January 31, 2014 Last Ship Date (AT45DB321D): July 31, 2014

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

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