



PCN / EOL Notification

Product Change Notification Number: HC110902

Notification Date*: March 9, 2011

Title: New Wafer Fab Location for the H-bridge Motor Driver IC ATA6823					
Product Identification: ATA6823C-PHQW					
Reason for Change:	<input type="checkbox"/> Material / Composition	<input type="checkbox"/> Design / Firmware	<input checked="" type="checkbox"/> Manufacturing Location		
	<input type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Logistics	<input type="checkbox"/> Quality / Reliability		
Change Description:					
<p>Atmel has released the AT75k technology for the Atmel wafer fab in Colorado Springs, USA, as second-source front-end supply in addition to TELEFUNKEN Semiconductors GmbH & Co. KG, Heilbronn/Germany, in 2010. The fab in Colorado Springs is supplied by the same raw wafer suppliers SEH (Shin-Etsu Handotai) and OKMETIC as TELEFUNKEN Semiconductors GmbH & Co. KG. Following several LIN devices, the H-bridge Motor Driver IC ATA6823 is now also being transferred to Colorado Springs. This will result in a cumulated production volume of >25 million units in 2010 and 2011. The driver IC manufactured in Colorado Springs (ATA6823C-PHQW) will replace the ATA6823-PHQW out of Heilbronn/Germany. Qualification was done according to AEC-Q100. PPAP documentation and datasheet are available. The electrical characteristics as given in the datasheet will remain the same, except the following parameters:</p>					
Data Sheet Differences ATA6823 vs ATA6823C					
No	Parameter	Pin	Symbol	ATA6823-PHQW	ATA6823C-PHQW
(3.2)	Vcc threshold voltage level for /RESET	29	T _{thRESL}	4,30V (2,86V)	4,00V (2,65V)
(3.3)	Max value Hysteresis of /RESET level	29	HYS _{RESt}	350mV (220mV)	600mV (400mV)
Correction of typical values					
(3.4)	Typical length of pulse at /RESET pin	5	t _{res}	6800	7000
(3.6)	Typical wait for the 1st WD trigger	5	t _d	6800	7000
7. Noise and Surge Immunity, ESD and Latch-up					
ATA6823-PHQW					
ESD HBM with 1.5 kΩ/100 pF		ESD- STM5.1-2001 JESD22-A114E 2007 CE/IEC 60749-26: 2006 AEC-Q100-002-Ref_D			±4 kV
ATA6823C-PHQW					
ESD HBM with 1.5kΩ/100pF		ESD- STM5.1-2001 JESD22-A114E 2007 CE/IEC 60749-26: 2006 AEC-Q100-002-Ref_D			±3kV
Identification Method to Distinguish Change:					
Letter "C" at the end of the part number, visible on marking					
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 type="checkbox"/> Will be available (mm/dd/yr):		<input type="checkbox"/> Not Applicable	

Quantifiable Impact on Quality & Reliability:

There is no impact.

Forecasted Availability Date: April 29, 2011

Last Time Buy Date: August 31, 2011 (for ATA6823-PHQW)

Last Ship Date: February 28, 2012 (for ATA6823-PHQW)

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

Atmel Contact: pcnadm@atmel.com

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