



Product Change Notification

Product Change Notification Number: HC111902

Notification Date: May 13, 2011

Title: Implementation of the BOD Feature in the ATA5771/73/74			
Product Identification: ATA5771-PXQW, ATA5773-PXQW, ATA5774-PXQW			
Reason for Change:	<input type="checkbox"/> Material / Composition	<input checked="" type="checkbox"/> Design / Firmware	<input type="checkbox"/> Manufacturing Location
	<input type="checkbox"/> Processing / Manufacturing	<input type="checkbox"/> Logistics	<input type="checkbox"/> Quality / Reliability
Change Description: When the Brown-out Detector (BOD) is enabled by BODLEVEL fuses, the BOD is actively monitoring the supply voltage during a sleep period. In some devices it is possible to save power by disabling the BOD by software in power-down and standby sleep modes. The sleep mode power consumption will then be at the same level as when BOD is globally disabled by fuses. If BOD is disabled by software, the BOD function is turned off immediately after entering the sleep mode. Upon wake-up from sleep, BOD is automatically enabled again. This ensures safe operation in case the VCC level has dropped during the sleep period. When the BOD has been disabled, the wake-up time from sleep mode will be approximately 60µs to ensure that the BOD is working correctly before the MCU continues executing code. Additional information: This feature was already implemented in the product but not described in the automotive AVR datasheet, therefore, we have to add this BOD feature now to the datasheet.			
Identification Method to Distinguish Change: Updated datasheet with revision history and updated test program Rev 14.2, starting with lot #IM1112074S			
Qualification Data:	<input type="checkbox"/> Available	<input type="checkbox"/> Will be available (mm/dd/yr):	<input checked="" 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			
Proposed First Ship Date*: June 2011 <i>*The Proposed First Ship Date is the forecasted date that a customer may expect to receive changed product. This is determined by the estimated date of inventory depletion on the PCN issue date. This may be affected by fluctuations in supply and demand. Consequently, although customers should be prepared to receive changed product on this date, Atmel will continue to ship pre-changed product until a time in which inventory has been depleted. This may result in pre-changed product being shipped to customers after this forecasted date.</i>			
Atmel Contact: pcnadm@atmel.com			
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