

# PIC17C42A

## PIC17C42A Rev. A Silicon Errata Sheet

The PIC17C42A (Rev. A) parts you have received conform functionally to the PIC17C4X preliminary data sheet (DS30412**C**), except for the following clarifications and corrections.

#### NONE

#### Clarifications/Corrections to the Data Sheet:

The PIC17C42A Preliminary Data Sheet (document DS30412**C**) that you have received, requires the following clarifications and corrections.

 The clearing of any interrupt enable bit(s) in the INTSTA register should be preceded by the disabling of the global interrupt control bit (setting GLINTD). Global interrupts may then be reenabled. The individual interrupts may be reenabled without further control of the GLINTD bit

When global interrupts are enabled, if the interrupt flag is being set when the corresponding enable bit is being cleared the device will branch to the reset vector address (0h). The interrupt flag will not be (automatically) cleared.

- The RETURN instruction causes an update of the PCLATH register. The PCLATH register is loaded with the high address of the RETURN instruction.
- 3. The Table write to internal program memory (self programming) can occur even when the MCLR pin is either at the VIH or VIHH voltage level. When the MCLR pin is at VIH, the table write sequence occurs, but the programming voltage is marginal since the MCLR pin is not at the correct level. This table write may cause the specified program memory location to be corrupted (depending on the data in the TABLAT register).

Note: As with any windowed EPROM device, please cover the window at all times, except when erasing.

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4. Unexpected results may occur if a table write (TABLWT instruction) to external memory occurs after a table read (TABLRD instruction).

To ensure that the proper 16-bit value is written, a table write (TLWT) intruction(s) needs to be followed by the TABLWT instruction. If not the value that is written will not be as expected. The value will contain the values that were last written to the TABLATH and TABLATL registers and will not contain the values that had been read from the external memory into the TABLATH:TABLATL registers by the TABLRD instruction.

#### Example:

			TABLAT	Ext Bus
TLWT TABLWT :			x:fn1 fn2:fn1	
	•	•	X1:X0 X1:X0	
TABLWT	HI, I	1, fn5	fn5:X0	fn5:fn1

5. The Power-down current of the PIC17**C**42A has been increased as shown in Table 1. The specification of 5  $\mu$ A remains for the PIC17**LC**42A devices.

#### TABLE 1: DC SPECIFICATION LIMITS THAT VARY FROM DATA SHEET

Param No.	Param	Sym.	Characteristic	Tested		Data Sheet			Units	Condition		
	No.	Sylli.		Min	Тур	Max	Min	Тур	Max	Offics	Condition	
	D021	IPD	Power-down Current	_	< 1	10	_	< 1	5	μΑ	PIC17 <b>C</b> 42A	
				_	< 1	5	_	< 1	5	μΑ	PIC17 <b>LC</b> 42A	

#### Note the following details of the code protection feature on PICmicro® MCUs.

- The PICmicro family meets the specifications contained in the Microchip Data Sheet.
- Microchip believes that its family of PICmicro microcontrollers is one of the most secure products of its kind on the market today, when used in the intended manner and under normal conditions.
- There are dishonest and possibly illegal methods used to breach the code protection feature. All of these methods, to our knowledge, require using the PICmicro microcontroller in a manner outside the operating specifications contained in the data sheet. The person doing so may be engaged in theft of intellectual property.
- · Microchip is willing to work with the customer who is concerned about the integrity of their code.
- Neither Microchip nor any other semiconductor manufacturer can guarantee the security of their code. Code protection does not mean that we are guaranteeing the product as "unbreakable".
- Code protection is constantly evolving. We at Microchip are committed to continuously improving the code protection features of our product.

If you have any further questions about this matter, please contact the local sales office nearest to you.

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