

PIC18F2480/2580/4480/4580 Data Sheet Errata

Clarifications/Corrections to the Data Sheet

In the PIC18F2480/2580/4480/4580 Device Data Sheet (DS39637**C**), the following clarifications and corrections should be noted. Any silicon issues related to this device will reported in a separate silicon errata. Please check the Microchip web site for any existing issues.

1. Module: Enhanced Capture/Compare PWM (ECCP1)

The following note has been added to the end of Section 16.4.6 "Programmable Dead-Band Delay".

Note:

If the dead-band delay value is increased after the dead-band time has elapsed, that new value takes effect immediately. This happens even if the PWM pulse is high and can appear to be a glitch.

Dead-band values must be changed during the dead-band time or before ECCP is active.

2. Module: Master Synchronous Serial Port (MSSP) – Serial Peripheral Interface (SPI)

The following note has been added to the end of **Section 17.3.3** "Enabling SPI I/O".

Note: When the module is enabled and in Master mode (CKE, SSPSTAT<6> = 1), a small glitch of approximately half a TcY may be seen on the SCK pin. To resolve this, keep the SCK pin as an input while setting SPEN. Then, configure the SCK pin as an output (TRISC<3> = 0).

3. Module: Electrical Characteristics (DC Supply Voltage)

Note 2 is added to **Section 27.1 "DC Characteristics: Supply Voltage"** pertaining to parameter

D005.

27.1 DC Characteristics: Supply Voltage

PIC18F2480/2580/4480/4580 (Industrial, Extended)

PIC18LF2480/2580/4480/4580 (Industrial)

PIC18LF2480/2580/4480/4580 (Industrial)				Standard Operating Conditions (unless otherwise stated) Operating temperature $-40^{\circ}\text{C} \le \text{TA} \le +85^{\circ}\text{C}$ for industrial				
PIC18F2480/2580/4480/4580 (Industrial, Extended)			Operating temperature				ons (unless otherwise stated) $-40^{\circ}\text{C} \leq \text{TA} \leq +85^{\circ}\text{C}$ for industrial $-40^{\circ}\text{C} \leq \text{TA} \leq +125^{\circ}\text{C}$ for extended	
Param No.	Symbol	Characteristic	Min	Тур	Max	Units	Conditions	
	VDD	Supply Voltage						
D001		PIC18LF2X80/4X80	2.0	_	5.5	V		
		PIC18F2X80/4X80	4.2	_	5.5	V		
D002	VDR	RAM Data Retention Voltage ⁽¹⁾	1.5	_	_	V		
D003	VPOR	VDD Start Voltage to ensure internal Power-on Reset signal	_	_	0.7	V	See section on Power-on Reset for details	
D004	SVDD	VDD Rise Rate to ensure internal Power-on Reset signal	0.05	_		V/ms	See section on Power-on Reset for details	
	VBOR	Brown-out Reset Voltage		•				
D005		PIC18LF2X80/4X80						
		BORV1:BORV0 = 11	2.00	2.05	2.16	V		
		BORV1:BORV0 = 10	2.65	2.79	2.93	V		
D005		All Devices						
		BORV1:BORV0 = 01 ⁽²⁾	4.11	4.33	4.55	V		
		BORV1:BORV0 = 00	4.36	4.59	4.82	V		

Legend: Shading of rows is to assist in readability of the table.

Note 1: This is the limit to which VDD can be lowered in Sleep mode, or during a device Reset, without losing RAM data.

2: With BOR enabled, full-speed operation (Fosc = 40 MHz) is supported until a BOR occurs. This is valid, although VDD may be below the minimum voltage for this frequency.

REVISION HISTORY

Rev A Document (03/2006)

Original version of this document. Includes Data Sheet Clarification issue 1 (Flash Program Memory – Erase Block), 2 (Flash Program Memory – Pointer Boundaries), 3 (Figure 6-2: Table Write Operation), 4 (Section 6.2.4 Table Pointer Boundaries) 5 (Section 6.5 Writing to Flash Program Memory) 6 (Section 6.5.1 Flash Program Memory Write Sequence) and 7 (Example 6-3: Writing to Flash Program Memory).

Rev B Document (11/2007)

Removed Data Sheet Clarification issues 1-7 (Flash Program Memory) and added new issues 1 (ECCP1) and 2 (MSSP – SPI).

Rev C Document (2/2009)

Added Data Sheet Clarification issue 3 (Electrical Characteristics – DC Supply Voltage).

NOTES:

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