



PIC16F87XA

PIC16F87XA Rev. B2 Silicon Errata Sheet

The PIC16F87XA Rev. B2 parts you have received conform functionally to the Device Data Sheet (DS39582B), except for the anomalies described below.

All the problems listed here will be addressed in future revisions of the PIC16F87XA silicon.

Clarifications/Corrections to the Data Sheet:

In the Device Data Sheet (DS39582B), the following clarifications and corrections should be noted.

None.

1. Module: A/D (Operation)

The ADC is disabled when $ADCON1\langle 3:0 \rangle = 011x$ (all inputs digital) and $CMCON\langle 2:0 \rangle = 111$ (comparators are off). This is a special case that conflicts with the second sentence of Note 1 on page 131 of the device data sheet: "Pins configured as digital inputs will convert an analog input."

Work around

For the ADC module to be enabled, it is necessary to either:

1. Enable the comparators ($CMCON\langle 2:0 \rangle \neq 111$);
or
2. Configure at least one ADC channel as an analog input ($ADCON1\langle 3:0 \rangle \neq 011x$).

2. Module: Data EEPROM

Placing the device in Sleep mode, while the EEADR register points to an EEPROM address that contains a value other than FFh, may result in a power-down current (IPD) that exceeds the published specifications (when the temperature is higher than 60°C).

Work around

Before entering Sleep mode, make sure that EEADR is pointing to a data EEPROM address that contains the value FFh.

If EEADR is not used elsewhere in the code, be sure to initialize its value to a known address that contains the value FFh following any device Reset, including POR.

PIC16F87XA

APPENDIX A: REVISION HISTORY

Rev A Document (7/2002)

First revision of this document.

Added silicon issue 1 (A/D – Operation) and data sheet clarification issue 1 (Comparator).

Rev B Document (10/2002)

Added silicon issue 2 (Data EEPROM).

Rev C Document (11/2002)

Typographic corrections to silicon issue 1 (A/D – Operation).

Rev D Document (3/2003)

Added data sheet clarification issue 2 (Packaging – Pinout and Product Identification).

Rev E Document (9/2003)

Added data sheet clarification issue 3 (Voltage Reference Specifications).

Rev F Document (10/2003)

Removed all data sheet clarification issues because of updated data sheet revision.

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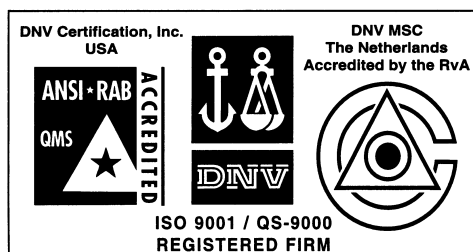
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