190403494 C8051T622/3, C8051T326/7 Missing Clock Detector Max Increase to 800us

PCN Issue Date: 4/3/2019   **Effective Date:** 7/9/2019

PCN Type: Datasheet

Description of Change

Silicon Labs is pleased to announce the release of version 1.2 of the C8051T622/3 amd C8051T326/7 datasheet. The changes for this revision are as follows:

-Increased maximum value of "Missing Clock Detector Timeout" parameter in Table 6.4, "Reset Electrical Characteristics," on page 30 from 750us to 800us.
-Added VBUS specification to Table 6.1, "Absolute Maximum Ratings," on page 28.
-Updated Supply Voltage footnote in Table 6.2, "Global Electrical Characteristics," on page 29.
-Removed Supply Voltage, Regulator1 in Bypass Mode specification in Table 6.2, "Global Electrical Characteristics," on page 29.
-Removed Supply Voltage, Regulator1 in Normal Mode test condition in Table 6.2, "Global Electrical Characteristics," on page 29.
-Renamed Supply Voltage parameter to VDD in Table 6.2, "Global Electrical Characteristics," on page 29.
-Increased maximum value of "Missing Clock Detector Timeout" parameter in Table 6.4, "Reset Electrical Characteristics," on page 30.
-Corrected units for Dropout Voltage in Table 6.5, "Internal Voltage Regulator Electrical Characteristics," on page 31.
-Added required settings for operation above 25 MHz in "Prefetch Engine" on page 49.
-Corrected typographical errors in Table 17.1, "Port I/O Assignment for Analog Functions," on page 99 and Table 17.2, "Port I/O Assignment for Digital Functions," on page 99.

Reason for Change

Further device characterization.

Impact on Form, Fit, Function, Quality, Reliability

The is no impact on form, fit, quality or reliability. Increasing the missing clock detector max time will increase the time it takes for the system to detect that the system clock has been held high or low and thus the missing clock detect reset will be 50us later than before.

Product Identification

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C8051T326-GM
C8051T326-GMR
C8051T327-GM
C8051T327-GMR
C8051T622-GM
C8051T622-GMR
C8051T623-GM
C8051T623-GMR
CT326-PX0568GM
CT326-PX0568GMR
CT326-PX0615GM
CT326-PX0615GMR
CT326-PX0616GM
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CT326-PX0616GMR
CT326-PX0672GM
CT326-PX0672GMR
CT326-PX0858GM
CT326-PX0858GMR
CT623-PM0873GM
CT623-PM0873GMR
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Last Date of Unchanged Product: 7/9/2019

Qualification Samples

Available upon request.

Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at http://www.silabs.com.
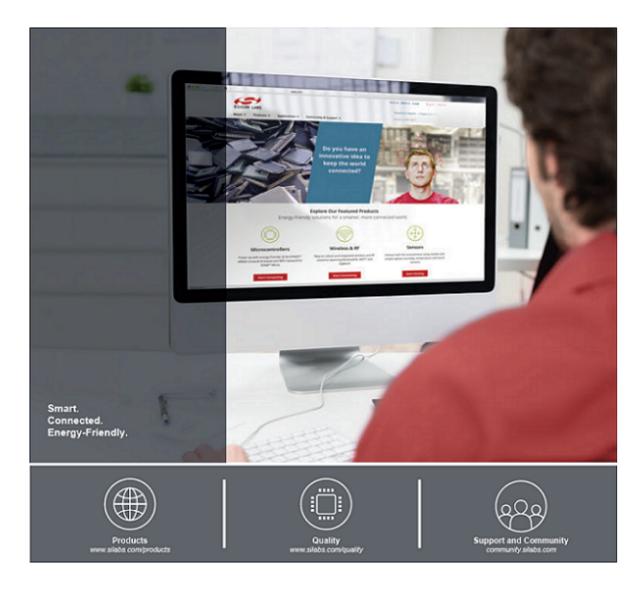
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