



Product Change Notification / SYST-01HTJB000

Date:

03-Nov-2021

Product Category:

Clock and Timing - Oscillators

PCN Type:

Document Change

Notification Subject:

ERRATA - DSC11xx Family Silicon Errata

Affected CPNs:

[SYST-01HTJB000_Affected_CPN_11032021.pdf](#)

[SYST-01HTJB000_Affected_CPN_11032021.csv](#)

Notification Text:

SYST-01HTJB000

Microchip has released a new Product Documents for the DSC11xx Family Silicon Errata of devices. If you are using one of these devices please read the document located at [DSC11xx Family Silicon Errata](#).

Notification Status: Final

Description of Change: Initial release of this document.

Impacts to Data Sheet: None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 03 Nov 2021

NOTE: Please be advised that this is a change to the document only the product has not been changed.

Markings to Distinguish Revised from Unrevised Devices: N/A

Attachments:

[DSC11xx Family Silicon Errata](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

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DSC11xx Family Silicon Errata

The DSC11xx devices that you have received conform functionally to the current device data sheets:

- DSC1101/21, revision DS20005613D (2020)
- DSC1102/22, revision DS20006254A (2019)
- DSC1103, revision DS20005745C (2019)
- DSC1104, revision DS20005870B (2019)

except for the anomaly described in this document.

Normal Operation

These products normally provide the oscillator output clock when the input pin EN is brought high; the products enter an output low-power mode when EN is brought low (while V_{DD} is still supplied). When EN is brought high once again, the output should restart and generate the output clock at the correct frequency.

Problem Description

Output may fail or generate an incorrect clock frequency at the output when EN has been brought back to a high state.

Condition Under Which the Problem May Occur

The problem is intermittent and can affect only the devices listed above. It may occur only if the following conditions are met:

1. EN is driven separately from V_{DD} .
2. There is a time lag between the application of V_{DD} and EN being driven high from low.

This intermittent restart failure is dependent upon the length of time for which EN is held low, and also the ramp rate of taking EN high. The problem has been found to occur at room temperature.

Users Have the Following Choices

- Use the device with EN connected directly to V_{DD} . In this case, the product will reliably restart when power and EN are cycled.
- If a separate low-power state is required, those devices that tri-state the outputs (DSC1121/1123/1123/1124) will work reliably.
- If a separate low-power state with very low quiescent current (μA) is needed, we recommend the DSC1201, DSC1202, DSC1203, or DSC1204, which do not have this anomaly.

DSC11XX

APPENDIX A: REVISION HISTORY

Rev. A Document (November 2021)

- Initial release of this document.

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