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| Notification Number: | 20210910000 | Notification Date: | December 17, 2021 |
| Title: | Datasheet for TPS3430-Q1 and TPS3850-Q1 | | |
| Customer Contact: | Notification Manager | Dept: | Quality Services |
| Change Type: Electrical Specification | | | |
| Description of Change: | | | |
| <p>Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.</p> | | | |
|  | | TPS3430-Q1 <small>SBVS367A – JULY 2018 – REVISED SEPTEMBER 2021</small> | |
| Changes from Revision * (July 2018) to Revision A (September 2021) | | | |
| | | | Page |
| <ul style="list-style-type: none"> • Updated the numbering format for tables, figures, and cross-references throughout the document..... 1 • Removed "±15% Accurate Watchdog Timeout and Watchdog Reset Delays Over Temperature"..... 1 • Added "Functional Safety-capable" bullet..... 1 • Updated Applications section with web links..... 1 • Removed "15% timing accuracy (–40°C to +125°C), "..... 1 • Added "The TPS3430-Q1 features wettable flanks for easy optical inspection."..... 1 • Updated ESD Ratings..... 5 • Updated I_{CWD} min and max spec..... 6 • Updated V_{CWD} min and max spec..... 6 • Added a footnote to for t_{INIT} 7 • Changed minimum and maximum specifications of 2nd, 5th, 6th, and 8th rows of t_{WDL} parameter 7 • Changed minimum and maximum specifications of 2nd and last rows of t_{WDU} parameter 7 • Changed minimum and maximum specifications for NC SETx 01 setting for both upper and lower watchdog boundaries, 10 kΩ to VDD SETx 00 and 01 settings for lower watchdog boundary, and 10 kΩ to VDD SETx 11 setting for both upper and lower watchdog boundaries in <i>Factory-Programmed Watchdog Timing</i> table... 19 • Updated t_{WDU} min and max values for all capacitors..... 19 • Updated t_{WDU} min and max boundry values from 0.85 and 1.15 to 0.905 and 1.095 respectively..... 19 • Updated t_{WDU} min and max values for all capacitors..... 20 • Updated t_{WDU} min and max boundry values from 0.85 and 1.15 to 0.905 and 1.095 respectively..... 20 | | | |
|  | | TPS3850-Q1 <small>SBVS264B – JANUARY 2017 – REVISED SEPTEMBER 2021</small> | |

Changes from Revision A (April 2017) to Revision B (July 2021)**Page**

| | |
|---|----|
| • Updated the numbering format for tables, figures, and cross-references throughout the document..... | 1 |
| • Removed "±15% Accurate WDT and RST Delays"..... | 1 |
| • Added "Functional Safety-capable" bullet..... | 1 |
| • Updated the Applications to link to the website..... | 1 |
| • Added "on the SENSE pin" for clarification..... | 1 |
| • Updated ESD Ratings..... | 4 |
| • Changed I _{CWD} min and max spec | 5 |
| • Changed V _{CWD} min and max spec | 5 |
| • Added a footnote to for t _{INIT} | 6 |
| • Created a separate section for Timing Diagram..... | 7 |
| • Added explanation about capacitors for t _{WDU} | 24 |
| • Changed minimum and maximum limits on t _{WDU} from 0.85 and 1.15 to 0.905 and 1.095 respectively | 24 |
| • Changed 0.85 to 0.905 in Equation 14 and 1.15 to 1.05 in Equation 15..... | 31 |

The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|---------------|--------------|------------|
| TPS3430-Q1 | SBVS367 | SBVS367A |
| TPS3850-Q1 | SBVS264A | SBVS264B |

These changes may be reviewed at the datasheet links provided.

<https://www.ti.com/product/TPS3430-Q1>

<https://www.ti.com/product/TPS3850-Q1>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this notification:

None.

Product Affected:

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| TPS3430WQDRCRQ1 | TPS3850G25QDRCRQ1 | TPS3850H09QDRCRQ1 | TPS3850H30QDRCRQ1 |
| TPS3850G09QDRCRQ1 | TPS3850G30QDRCRQ1 | TPS3850H12QDRCRQ1 | TPS3850H33QDRCRQ1 |
| TPS3850G12QDRCRQ1 | TPS3850G33QDRCRQ1 | TPS3850H18QDRCRQ1 | TPS3850H50QDRCRQ1 |
| TPS3850G18QDRCRQ1 | TPS3850G50QDRCRQ1 | TPS3850H25QDRCRQ1 | |

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

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