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|---|-----------------------------|-------------------------------------|---------------------|
| PCN Number: | 20171010001 | PCN Date: | October 18, 2017 |
| Title: | Datasheet for TPS65100-Q1 | | |
| Customer Contact: | PCN Manager | Dept: | Quality Services |
| Proposed 1st Ship Date: | June 18, 2018 | | |
| Change Type: | | | |
| <input type="checkbox"/> | Assembly Site | <input type="checkbox"/> | Design |
| <input type="checkbox"/> | Assembly Process | <input checked="" type="checkbox"/> | Data Sheet |
| <input type="checkbox"/> | Assembly Materials | <input type="checkbox"/> | Part number change |
| <input type="checkbox"/> | Mechanical Specification | <input type="checkbox"/> | Test Site |
| <input type="checkbox"/> | Packing/Shipping/Labeling | <input type="checkbox"/> | Test Process |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Bump Site |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Bump Material |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Bump Process |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Fab Site |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Fab Materials |
| <input type="checkbox"/> | | <input type="checkbox"/> | Wafer Fab Process |

Notification Details

Description of Change:

The product datasheet(s) is being updated as summarized below. The following change history provides further details.

The datasheet number will be changing.



TPS65100-Q1

SLVS849C – JULY 2008 – REVISED SEPTEMBER 2017

Changes from Revision B (March 2016) to Revision C

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| | |
|--|---|
| • Changed Features List | 1 |
| • Changed from T_A to T_J in the Conditions statement of and changed temperature from 85°C to 125°C..... | 6 |
| • Changed the MAIN BOOST CONVERTER V_{REF} spec from 1.205 MIN to 1.198, and MAX from 1.203 to 1.230 | 6 |
| • Changed V_{FB} spec from 1.113 MIN to 1.126, and MAX from 1.154 to 1.161 | 6 |
| • Changed $r_{DS(ON)}$ for $V_{O1} = 10\text{ V}$, $I_{SW} = 500\text{ mA}$ condition, from 290 to 325 MAX; and, for the $V_{O1} = 5\text{ V}$, $I_{SW} = 500\text{ mA}$ condition, changed from 420 to 455 MAX..... | 6 |
| • Changed f_{SW} Condition from T_A to T_J and changed f_{SW} spec for $0^\circ\text{C} \leq T_J \leq 125^\circ\text{C}$ condition from 1.295 MIN to 1.195 MIN; and, changed the MIN from 1.191 to 1.091, for the $-40^\circ\text{C} \leq T_J \leq 125^\circ\text{C}$ condition; | 6 |
| • Changed from T_A to T_J in the Conditions statement of and changed temperature from 85°C to 125°C..... | 7 |
| • Changed NEGATIVE CHARGE PUMP $V_{O2} V_{REF}$ spec from 1.205 MIN to 1.198, and MAX from 1.219 to 1.226 | 7 |
| • Changed POSITIVE CHARGE PUMP $V_{O3} V_{REF}$ spec from 1.205 MIN to 1.198, and MAX from 1.219 to 1.226..... | 7 |
| • Changed V_{FB} spec from 1.187 MIN to 1.180, and MAX from 1.238 to 1.245 | 7 |
| • Changed POSITIVE CHARGE PUMP V_{O3} , V_D spec from 720 MAX to 800 | 7 |
| • Changed from T_A to T_J in the Conditions statement of and changed temperature from 85°C to 125°C..... | 8 |

The datasheet number will be changing.

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|---------------|--------------|------------|
| Device Family | Change From: | Change To: |
| TPS65100-Q1 | SLVS849B | SLVS849C |

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TPS65100-Q1>

Reason for Change:

To more accurately reflect device characteristics.

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

Electrical specification performance changes as indicated above.

Changes to product identification resulting from this PCN:

None.

Product Affected:

| | | | |
|-----------------|--|--|--|
| TPS65100QPWPRQ1 | | | |
|-----------------|--|--|--|

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

| Location | E-Mail |
|-----------------|--|
| USA | PCNAmericasContact@list.ti.com |
| Europe | PCNEuropeContact@list.ti.com |
| Asia Pacific | PCNAsiaContact@list.ti.com |
| Japan | PCNJapanContact@list.ti.com |