| PCN Number: | 20150123000 | | PCN Date: | 01/28/2015 |
|---|---|---|---|---|
| Title: | Datasheet update for BQ24196 | | | |
| Customer Contact: | PCN Manager | Dept: | | Quality Services |
| Change Type: | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| ☐ | Assembly Site | ☐ | Design | ☐ | Wafer Bump Site | |
| ☐ | Assembly Process | ☒ | Data Sheet | ☐ | Wafer Bump Material | |
| ☐ | Assembly Materials | ☐ | Part number change | ☐ | Wafer Bump Process | |
| ☐ | Mechanical Specification | ☐ | Test Site | ☐ | Wafer Fab Site | |
| ☐ | Packing/Shipping/Labeling | ☐ | Test Process | ☐ | Wafer Fab Materials | |
| | | | | ☐ | Wafer Fab Process | |

## PCN Details

### Description of Change:

Texas Instruments Incorporated is announcing an information only notification.

The product datasheet(s) is being updated as summarize below.

The following change history provides further details

**TEXAS INSTRUMENTS**

**bq24196**

SLUSB98A – OCTOBER 2012 – REVISED DECEMBER 2014                                          www.ti.com

**Changes from Original (October 2012) to Revision A**                                          **Page**

- Added Handling Rating table, Feature Description section, Device Functional Modes, Application and Implementation section, Power Supply Recommendations section, Layout section, Device and Documentation Support section, and Mechanical, Packaging, and Orderable Information section. .................................... 1
- Changed BOOT to BTST in Figure 36 ................................................................................. 1
- Changed $V_{SLEEPZ}$, $V_{BAT\_DPL\_HY}$, $V_{BATGD}$, $I_{CHG\_20pct}$, $V_{SHORT}$, $I_{ADPT\_DPM}$, $K_{ILIM}$, $V_{BTST\_REFRESH}$ in Electrical Characteristics.......... 6
- Added –40°C to 85° to $I_{BAT}$ Test Condition........................................................................... 6
- Added REG00[6:3] = 0110 (4.36 V) or 1011 (4.76 V) to $V_{INDPM\_REG\_ACC}$ Test Conditions...................... 8
- Added a MIN value of 435 to $K_{ILIM}$................................................................................... 8
- Deleted $T_{Junction\_REG}$ MIN and MAX................................................................................. 8
- Changed $V_{OTG\_ILIM}$ to $I_{OTG\_ILIM}$ and $V_{OTG\_HSZCP}$ to $I_{OTG\_HSZCP}$ ..................................................... 8
- Deleted $V_{REGN}$, $V_{VBUS}$ = 5 V, $I_{REGN}$ = 20 mA MAX value................................................... 9
- Changed Functional Block Diagram ................................................................................ 12
- Changed REG09[5:4] to REG08[5:4] in Charging Termination section ........................................ 20
- Changed Charging Safety Timer description........................................................................ 20
- Changed Host Mode and Default Mode description................................................................ 25
- Changed Charge Current Control Register REG02 Bit 0 description and note ................................ 29
- Changed Charge Voltage Limit from Default: 4.304 V (110010) to Default: 4.208 V (101100)................ 30
- Changed BOOT to BTST in Figure 36 ............................................................................... 34
- Changed BOOT to BTST in Figure 37 ............................................................................... 35

The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|---|---|---|
| BQ24196 | SLUSB98 | **SLUSB98A** |

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/sitesearch/docs/universalsearch.tsp?searchTerm=BQ24196#linkId=1&src=top

| 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:** | |
| BQ24196RGER | BQ24196RGET |

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 |