| PCN Number: | 20150123001 | | PCN Date: | 01/28/2015 |
|---|---|---|---|---|
| Title: | Datasheet update for bq24190/bq24192/bq24192I | | | |
| 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**

**bq24190, bq24192, bq24192I**

SLUSAW5B – JANUARY 2012 – REVISED DECEMBER 2014

www.ti.com

### Changes from Revision A (October 2012) to Revision B — Page

- Aligned package description throughout datasheet. ........ 1
- Added ESD Ratings, Feature Description, Device Functional Modes, Application and Implementation, Power Supply Recommendations, Layout, Device and Documentation Support, Mechanical, Packaging, Orderable Information. ........... 1
- Added Feature: Compatible with MaxLife Technology for Faster Charging When Used in Conjunction With bq27531 ....... 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 Typical input current of 1.5 A based on KLIM to $I_{ADPT\_DPM}$ Test Conditions ........ 8
- Added a MIN value of 435 to $K_{ILIM}$ ........ 8
- Deleted $T_{Junction\_REG}$ MIN and MAX ........ 8
- Added rising to $V_{HTF}$ parameter ........ 8
- Deleted $V_{REGN}$, $V_{VBUS}$ = 5 V, $I_{REGN}$ = 20 mA MAX value ........ 9
- Changed Functional Block Diagram ........ 12
- Changed Charging Current in Table 4 ........ 18
- Changed REG09[5:4] to REG08[5:4] in Charging Termination section ........ 21
- Added or when FORCE_20PCT (REG02[0]) bit is set, to Charging Safety Timer description ........ 22
- Added last paragraph to Charging Safety Timer description. ........ 22
- Added twice to Host Mode and Default Mode description ........ 27
- Changed REG05[5:4]=11 to REG05[5:4]=00 in Host Mode and Default Mode description ........ 27
- Changed Charge Current Control Register REG02 Bit 0 description ........ 31
- Changed Charge Current Control Register REG02 Bit 0 note ........ 31
- Changed REG05 Bit 0 from JEITA ISET (0°C-10°C) to Reserved ........ 32
- Changed REG07 Bit 4 from JEITA_VSET (45°C to 60°C) to Reserved ........ 33
- Changed BOOT to BTST in Figure 38 ........ 37
- Changed BOOT to BTST in Figure 39 ........ 37
- Changed bq24193 to bq24192 in Figure 42 ........ 39

The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|---|---|---|
| BQ24190/92/92I | SLUSAW5A | **SLUSAW5B** |

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/sitesearch/docs/universalsearch.tsp?searchTerm=BQ24190#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:**

| | | | |
|---|---|---|---|
| BQ24190RGER | BQ24192IRGER | BQ24192RGER | |
| BQ24190RGET | BQ24192IRGET | BQ24192RGET | |

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 |