TEXAS INSTRUMENTS 12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20120904003
Datasheet update for UCD3138
Information Only

Date: 9/13/2012
To: MOUSER PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this PCN are for your information only. Please see the attachment details for the planned implementation date.

This notification period is per TI's standard process. Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: +1(214) 480-6037
Fax: +1(214) 480-6659

20120904003
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
UCD3138RGCT	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20120904003	**PCN Date:**	09/10/2012

Title:	UCD3138 Data Sheet

Customer Contact:	PCN Manager	**Phone:**	+1(214) 480-6037	**Dept:**	Quality Services

Change Type:

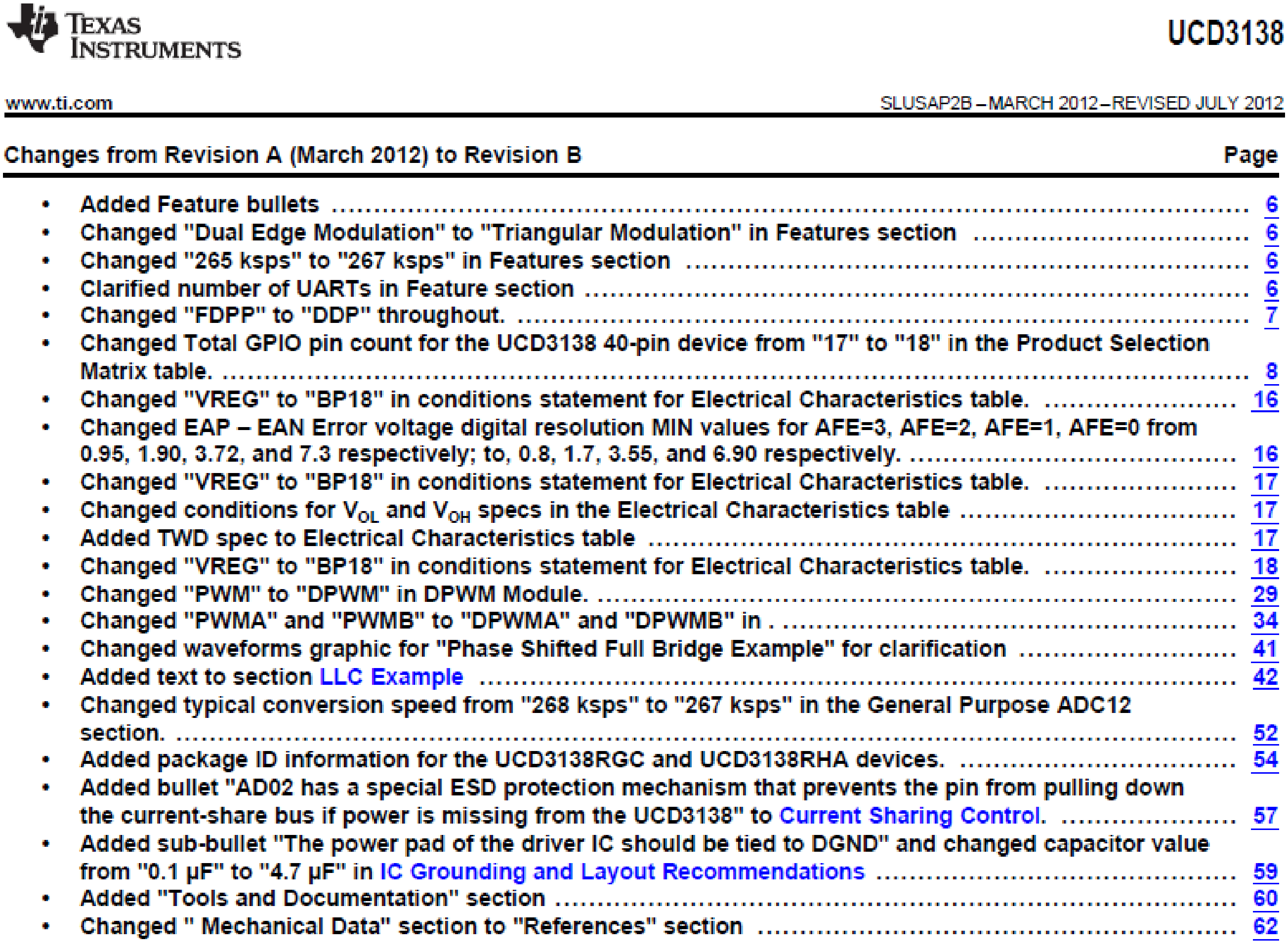
☐	Assembly Site	☐	Assembly Process	☐	Assembly Materials
☐	Design	☒	Electrical Specification	☐	Mechanical Specification
☐	Test Site	☐	Packing/Shipping/Labeling	☐	Test Process
☐	Wafer Bump Site	☐	Wafer Bump Material	☐	Wafer Bump Process
☐	Wafer Fab Site	☐	Wafer Fab Materials	☐	Wafer Fab Process

PCN Details

Description of Change:

The product datasheet(s) is being updated to update specs and application sections.

The following change history provides further details. These changes may be reviewed at the datasheet links provided (see datasheet page 63 for table with hyperlinks to specific changes)



TEXAS INSTRUMENTS UCD3138

www.ti.com SLUSAP2B – MARCH 2012 – REVISED JULY 2012

Changes from Revision A (March 2012) to Revision B Page

- Added Feature bullets 6
- Changed "Dual Edge Modulation" to "Triangular Modulation" in Features section 6
- Changed "265 ksps" to "267 ksps" in Features section 6
- Clarified number of UARTs in Feature section 6
- Changed "FDPP" to "DDP" throughout. 7
- Changed Total GPIO pin count for the UCD3138 40-pin device from "17" to "18" in the Product Selection Matrix table. 8
- Changed "VREG" to "BP18" in conditions statement for Electrical Characteristics table. 16
- Changed EAP – EAN Error voltage digital resolution MIN values for AFE=3, AFE=2, AFE=1, AFE=0 from 0.95, 1.90, 3.72, and 7.3 respectively; to, 0.8, 1.7, 3.55, and 6.90 respectively. 16
- Changed "VREG" to "BP18" in conditions statement for Electrical Characteristics table. 17
- Changed conditions for V_{OL} and V_{OH} specs in the Electrical Characteristics table 17
- Added TWD spec to Electrical Characteristics table 17
- Changed "VREG" to "BP18" in conditions statement for Electrical Characteristics table. 18
- Changed "PWM" to "DPWM" in DPWM Module. 29
- Changed "PWMA" and "PWMB" to "DPWMA" and "DPWMB" in 34
- Changed waveforms graphic for "Phase Shifted Full Bridge Example" for clarification 41
- Added text to section LLC Example 42
- Changed typical conversion speed from "268 ksps" to "267 ksps" in the General Purpose ADC12 section. 52
- Added package ID information for the UCD3138RGC and UCD3138RHA devices. 54
- Added bullet "AD02 has a special ESD protection mechanism that prevents the pin from pulling down the current-share bus if power is missing from the UCD3138" to Current Sharing Control. 57
- Added sub-bullet "The power pad of the driver IC should be tied to DGND" and changed capacitor value from "0.1 µF" to "4.7 µF" in IC Grounding and Layout Recommendations 59
- Added "Tools and Documentation" section 60
- Changed " Mechanical Data" section to "References" section 62

The datasheet number will be changing.

Device Family	Change From:	Change To:
UCD3138	SLUSAP2A	**SLUSAP2B**

The updated datasheet(s) can be accessed by the following link(s):
http://www.ti.com/product/ucd3138

Reason for Change:
To more accurately reflect device characteristics - no actual changes to device performance have occurred
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:

UCD3138RGCR	UCD3138RGCT	UCD3138RHAR	UCD3138RHAT

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