

PCN Number:	20170118000	PCN Date:	Feb. 27, 2017
Title:	Datasheet for ADS1013, ADS1014, ADS1015		
Customer Contact:	PCN Manager	Dept:	Quality Services
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:

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.



ADS1013, ADS1014, ADS1015

SBAS473D – MAY 2009 – REVISED DECEMBER 2016

Changes from Revision C (October 2009) to Revision D	Page
• Added <i>Device Information, ESD Ratings, Recommended Operating Conditions, and Thermal Information</i> tables, and <i>Parameter Measurement Information, Detailed Description, Application and Implementation, Power Supply Recommendations, Layout, Device and Documentation Support</i> , and sections.....	1
• Changed <i>Title, and Description, Features, and Applications</i> sections for clarity	1
• Deleted temperature range text from <i>Description</i> section and moved to <i>Features</i> section	1
• Changed <i>Product Family</i> table title to <i>Device Comparison Table</i> and deleted <i>Package Designator</i> column.....	4
• Changed <i>Pin Functions</i> table for clarity.....	4
• Changed <i>Power-supply voltage</i> max value from 5.5 V to 7 V in <i>Absolute Maximum Ratings</i> table.....	5
• Changed <i>Analog input voltage</i> from –0.3 V to GND – 0.3 V in <i>Absolute Maximum Ratings</i> table	5
• Changed <i>Digital input voltage</i> min value from –0.5 V to GND – 0.3 V in <i>Absolute Maximum Ratings</i> table.....	5
• Changed <i>Digital input voltage</i> max value from 5.5 V to VDD + 0.3 V in <i>Absolute Maximum Ratings</i> table	5
• Deleted <i>Analog input current</i> rows in <i>Absolute Maximum Ratings</i> table.....	5
• Added <i>Input current</i> row in <i>Absolute Maximum Ratings</i> table	5
• Added <i>Operating temperature</i> range of –40°C to +125°C back into <i>Absolute Maximum Ratings</i> table	5
• Added minimum specification of –40°C for T _J in <i>Absolute Maximum Ratings</i> table	5
• Changed <i>Electrical Characteristics</i> table conditions line for clarity	6
• Changed all instances of "FS" to "FSR"	6
• Deleted FSR from <i>Electrical Characteristics</i> and moved to <i>Recommended Operating Conditions</i> table	6
• Added values from Table 2 to <i>Differential input impedance</i> parameter in <i>Electrical Characteristics</i>	6
• Deleted <i>Output noise</i> parameter from <i>Electrical Characteristics</i>	6
• Changed <i>Offset error</i> empty min value to –0.5, and max value from ±0.5 to 0.5 for clarity in <i>Electrical Characteristics</i> table	6
• Changed V _{IH} parameter max value from 5.5 V to VDD in <i>Electrical Characteristics</i> table	6
• Changed V _{IL} parameter min value from GND – 0.5 V to GND in <i>Electrical Characteristics</i> table	6

- Changed *Input leakage current* parameters from two rows to one row, changed test conditions from $V_{IH} = 5.5V$ and $V_{IL} = GND$ to $GND < V_{DIG} < VDD$, and changed min value from 10 μA to -10 μA in *Electrical Characteristics* table 6
- Deleted *Power-supply voltage* parameter from *Electrical Characteristics* and moved to *Recommended Operating Conditions* table 6
- Deleted *Specified temperature* parameter from *Electrical Characteristics* and moved to *Recommended Operating Conditions* table 6
- Deleted *Storage temperature* parameter from *Electrical Characteristics* to *Absolute Maximum Ratings* table 6
- Deleted *Operating temperature* parameter from *Temperature* section of *Electrical Characteristics* table 6
- Changed text in note 1 of *Electrical Characteristics* table from "In no event should more than $VDD + 0.3 V$ be applied to this device" to "No more than $VDD + 0.3 V$ or $5.5 V$ (whichever is smaller) must be applied to this device. See Table 1 for more information." 6
- Added condition statement in *Timing Requirements: f^2C* 7
- Added note 1 to *Timing Requirements* table 7
- Deleted Figure 7, *Noise Plot* 8
- Changed Figure 8; deleted "Gain = 2/3, 1, 2, 4, 8, or 16" from figure 9
- Added *Functional Block Diagrams* for ADS1014 and ADS1013 9
- Changed *Analog Inputs* section to provide LSB size information instead of PGA setting 11
- Changed *Full-Scale Input* section title to *Full-Scale Range (FSR) and LSB Size*, and updated section for clarity 12
- Added *Voltage Reference* and *Oscillator* sections 12
- Changed *Comparator* section title to *Digital Comparator*, and updated section for clarity 12
- Changed *Conversion Ready Pin* section for clarity 13
- Changed *Register Map* section for clarity 21
- Changed *Application Information* section for clarity 25
- Added *Input Protection* section 26
- Added *Unused Inputs and Outputs* section 26
- Changed *Aliasing* section title to *Analog Input Filtering* and updated section for clarity 27
- Added *Typical Application* section 30

The datasheet number will be changing.

Device Family	Change From:	Change To:
ADS1013, ADS1014, ADS1015	SBAS473C	SBAS473D

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/ADS1013>

Reason for Change:

To accurately reflect device thermal 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 PCN:

None.

Product Affected:

ADS1013IDGSR	ADS1013IDGST	ADS1013IRUGR	ADS1013IRUGT
ADS1014IDGSR	ADS1014IDGST	ADS1014IRUGR	ADS1014IRUGT
ADS1015IDGSR	ADS1015IDGST	ADS1015IRUGR	ADS1015IRUGT

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
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Asia Pacific	PCNAsiaContact@list.ti.com
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