<b>Notification Number:</b> 2016				0161214001		<b>Notification Date:</b>		ate:	December 19, 2016
Title: Datasheet for ADS1013-Q				21/4	ADS1014-Q1/A	DS1015-Q1			
Customer Contact: PCN Mana			<b>Nanager</b>	ger Dept: Quality Se		rvices			
Change Type:									
	Assembly Site				Design			Wafe	r Bump Site
Assembly Process			$\boxtimes$	Data Sheet			Wafe	r Bump Material	
Assembly Materials				Part number change			Wafe	r Bump Process	
Mechanical Specification				Test Site			Wafe	r Fab Site	
Packing/Shipping/Labeling				Test Process			Wafe	r Fab Materials	
							Wafe	r Fab Process	
Notification Details									

## Notification Details

## **Description of Change:**

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is updated as seen in the change revision history below: This change only applies to ADS1015AQDGSRQ and ADS1015QDGSRQ1.



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## ADS1013-Q1, ADS1014-Q1, ADS1015-Q1 SBAS511B - JULY 2010-REVISED DECEMBER 2016

Changes from Revision A (March 2016) to Revision B Page Changed Digital input voltage min value from -0.5 V to GND - 0.3 V in Absolute Maximum Ratings table...... 5 Changed Full-scale input voltage range (FSR) from typical value of ±4.096/PGA V to min value of ±0.256 V and Changed text in note 2 (previously note 1 in revision A) 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 

•	Changed existing thermal information values for ADS1015-Q1 (R <sub>BJA</sub> from 175.								
	R <sub>θJB</sub> from 96.4 to 103.8, ψ <sub>JT</sub> from 8.8 to 10.2, ψ <sub>JB</sub> from 94.8 to 102.1)								
	Changed all instances of "FS" to "FSR"								
	Deleted FSR from Electrical Characteristics and moved to Recommended Operating Conditions table								
	Added values from Table 1 to Differential input impedance parameter in Electrical Characteristics								
	Deleted Output noise parameter from Electrical Characteristics								
	Changed Offset error parameter min value from empty to -3, and max value from ±3 to 3 for clarity in Electrical								
	Characteristics table 6								
:	Changed V <sub>IH</sub> parameter max value from 5.5 V to VDD in <i>Electrical Characteristics</i> table								
	Changed V <sub>IL</sub> parameter min value from GND – 0.5 V to GND in <i>Electrical Characteristics</i> table								
	$V_{IL}$ = GND to GND < $V_{DIG}$ < VDD, and changed min value from 10 $\mu$ A to –10 $\mu$ A in <i>Electrical Characteristics</i> table								
•	Added Supply current parameters to Electrical Characteristics table6								
•	Added Power dissipation parameters to Electrical Characteristics table								
•	Changed text in note 1 of <i>Electrical Characteristics</i> 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."								
	Added condition statement in <i>Timing Requirements</i> : <i>l</i> <sup>2</sup> <i>C</i>								
	Added note 1 to Timing Requirements table								
	Deleted Figure 7, Noise Plot								
•	Changed functional block diagram; deleted "Gain = 2/3, 1, 2, 4, 8, or 16" from figure								
•	Added Functional Block Diagrams for ADS1014-Q1 and ADS1013-Q19								
•	Changed Analog Inputs section to provide LSB size information instead of PGA setting								
•	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								
•	Changed Comparator section title to Digital Comparator, and updated section for clarity.								
•	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								
•	Added Unused Inputs and Outputs section		26						
•	Changed Aliasing section title to Analog Input Filtering and updated section for	•							
•	Deleted previous Typical Application section and added new, more detailed Ty	pical Application section	30						
•	Changed Power Supply Recommendations section for clarity								
<u>.</u>	Changed Layout section for clarity		35						
Tŀ	ne datasheet number will be changing.								
	Device Family	Change From:	Change To:	٦					
	ADS1013-Q1/ADS1014-Q1/ADS1015-Q1	SBAS511A	SBAS511B						
These changes may be reviewed at the datasheet links provided.									
http://www.ti.com/lit/ds/symlink/ads1015-q1.pdf									
Reason for Change:									
To more accurately reflect device 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 notification:									
None.									
Product Affected:									
A	ADS1015AQDGSRQ1 ADS1015QDGSRQ1								
<u> </u>	ואַרוסיטעאַנדיייער								

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

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