

<b>PCN Number:</b>	20170717001	<b>PCN Date:</b>	July 26, 2017
<b>Title:</b>	Datasheet for TPS74401		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Change Type:</b>			
<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"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<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.



TPS74401

SBVS066R – DECEMBER 2005 – REVISED APRIL 2017

#### Changes from Revision Q (April 2015) to Revision R

Page

• Added RGR package to document .....	1
• Changed TPS744xx to TPS74401 throughout document .....	1
• Changed <i>Packages Features</i> bullet .....	1
• Changed second paragraph of Description section: added RGR package and changed second to last sentence.....	1
• Deleted fixed voltage version of <i>Typical Application Circuit</i> diagram.....	1
• Added RGR package to <i>Pin Configuration and Functions</i> section .....	5
• Changed FB/SNS to FB in both pin out drawings, deleted TPS744xx from VQFN package .....	5
• Changed <i>Surface Mount</i> to <i>Top View</i> in KTW pin out drawing.....	5
• Changed <i>input capacitor</i> to <i>bias capacitor</i> in BIAS pin description .....	5
• Deleted ( <i>adjustable version only</i> ) from description of FB pin in <i>Pin Functions</i> table .....	5
• Changed I/O column value to — from O for NC pins of <i>Pin Functions</i> table .....	5
• Deleted SNS pin from <i>Pin Functions</i> table .....	5
• Added RGR package to <i>Thermal Information</i> table .....	7
• Deleted ( <i>adjustable version</i> ) from $V_{REF}$ parameter name in <i>Electrical Characteristics</i> table .....	7
• Deleted SNS pin reference from $I_{FB}$ , $I_{SNS}$ parameter: changed symbol from $I_{FB}$ , $I_{SNS}$ to $I_{FB}$ , deleted <i>sense</i> from parameter name .....	7
• Deleted <i>adjustable</i> from footnote 1 and deleted $I_{SNS}$ from footnote 4 of <i>Electrical Characteristics</i> table .....	7
• Changed conditions of $R_1$ , $R_2$ in <i>Noise Spectral Density</i> figure .....	11
• Deleted <i>Fixed Voltage Versions</i> figure from <i>Functional Block Diagram</i> section .....	14
• Changed first paragraph of <i>Application Information</i> section: deleted <i>and tracking capabilities</i> from first sentence and changed <i>very low input and output voltages</i> to <i>very low output voltages with low <math>V_{IN}</math> to <math>V_{OUT}</math> headroom</i> in last sentence .....	18
• Changed title of first typical application from <i>Adjustable Voltage Part and Setting</i> to <i>Setting the TPS74401</i> .....	20
• Deleted reference to adjustable version in first sentence and <i>Typical Application Circuit for the TPS74401</i> figure in first typical application section.....	20
• Changed <i>Because <math>V_{IN} \geq V_{OUT} + 1.62</math> V</i> to <i>Because <math>V_{IN}</math> is less than <math>V_{OUT}</math> plus the <math>V_{BIAS}</math> dropout and <math>V_{BIAS} = V_{IN}</math> to</i>	
$V_{BIAS} = V_{OUT}$ in last paragraph of <i>Detailed Design Procedure</i> in first typical application section .....	21
• Deleted <i>Fixed Voltage and Sense Pin</i> section.....	23
• Deleted BIAS recommendation from <i>Layout Guidelines</i> section.....	25
• Changed <i>RGW Package</i> to <i>VQFN Packages</i> in caption of <i>Layout Schematic</i> figure.....	25
• Added RGR package to VQFN description in <i>Power Dissipation</i> section.....	26
• Added RGR package to <i>Thermal Considerations</i> section .....	27

The datasheet number will be changing.

Device Family	Change From:	Change To:
TPS74401	SBVS066Q	SBVS066R

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TPS74401>

**Reason for Change:**

To 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 PCN:**

None.

**Product Affected:**

TPS74401KTWR	TPS74401KTWRG3	TPS74401KTWT	TPS74401KTWTG3
TPS74401RGRR	TPS74401RGRT	TPS74401RGWR	TPS74401RGWRG4
TPS74401RGWT	TPS74401RGWTG4		

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