

12500 TI Boulevard, MS 8640, Dallas, Texas 75243

Notification# 20170717001 Datasheet for TPS74401 Information Only

Date: July 26, 2017

To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

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

The changes discussed within this notification are for your information only.

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 www admin team@list.ti.com).

Sincerely,

PCN Team SC Business Services

Information Only Attachments

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
TPS74401KTWR	null
TPS74401KTWT	null
TPS74401RGWT	null
TPS74401RGWR	null

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

PC	N Nui	mber:	201707170	001		PCN Date:	July 26, 2017			
Tit	Title: Datasheet for TPS74401									
Customer Contact: PCN Manage				<u>er</u>				Dept:		Quality Services
Ch	Change Type:									
	Asse	embly Site	Site Design					Wafer Bump Site		
	Assembly Process		\boxtimes	□ Data Sheet				Wafer Bump Material		
Assembly Materials			Part numb	oer change			Wafer	Bump Process		
Mechanical Specification			Test Site				Wafer	Fab Site		
Packing/Shipping/Labeling			Test Proce	ess			Wafer	Fab Materials		
	☐ 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

С	nanges from Revision Q (April 2015) to Revision R	Page
	Added RGR package to document	1
	Changed TPS744xx to TPS74401 throughout document	1
	Changed Packages Features bullet	
	Changed second paragraph of Description section: added RGR package and changed second to last sentence	1
	Deleted fixed voltage version of Typical Application Circuit diagram	1
	Added RGR package to Pin Configuration and Functions section	(
	Changed FB/SNS to FB in both pin out drawings, deleted TPS744xx from VQFN package	(
	Changed Surface Mount to Top View in KTW pin out drawing	(
	Changed input capacitor to bias capacitor in BIAS pin description	(
	Deleted (adjustable version only) from description of FB pin in Pin Functions table	
	Changed I/O column value to — from O for NC pins of Pin Functions table	
	Deleted SNS pin from Pin Functions table	
	Added RGR package to Thermal Information table	
	Deleted (adjustable version) from V _{REF} parameter name in Electrical Characteristics table	
	Deleted SNS pin reference from I_{FB} , I_{SNS} parameter: changed symbol from I_{FB} , I_{SNS} to I_{FB} , deleted sense from parameter name	
	Deleted adjustable from footnote 1 and deleted I _{SNS} from footnote 4 of Electrical Characteristics table	
	Changed conditions of R ₁ , R ₂ in Noise Spectral Density figure	1
	Deleted Fixed Voltage Versions figure from Functional Block Diagram section	1
	Changed first paragraph of Application Information section: deleted and tracking capabilities from first sentence and changed very low input and output voltages to very low output voltages with low V_{IN} to V_{OUT} headroom in last sentence	ce 1
	Changed title of first typical application from Adjustable Voltage Part and Setting to Setting the TPS74401	2
	Deleted reference to adjustable version in first sentence and <i>Typical Application Circuit for the TPS74401</i> figure in first typical application section	2
	Changed Because $V_{IN} \ge V_{OUT}$ + 1.62 V to Because V_{IN} is less than V_{OUT} plus the V_{BIAS} dropout and V_{BIAS} = V_{IN} to	
	$V_{BIAS} = V_{OUT}$ in last paragraph of <i>Detailed Design Procedure</i> in first typical application section	2
	Deleted Fixed Voltage and Sense Pin section	2
	Deleted BIAS recommendation from Layout Guidelines section	2
	Changed RGW Package to VQFN Packages in caption of Layout Schematic figure	2
	Added RGR package to VQFN description in Power Dissipation section	2
	Added RGR package to Thermal Considerations section	2

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		

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