

PCN# 20140204001 Datasheet update for TPS2420/TPS2421-x/TPS2590/TPS25910 Information Only

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 (<u>PCN ww admin team@list.ti.com</u>).

Sincerely,

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

PCN# 20140204001 Attachment: 1

Products Affected:

According to our records, there are the affected device(s) that you have purchased within the past twenty-four (24) months. Technical details of this Product Change follow on the next page(s).

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TEXAS INSTRUMENTS

SLUS907H-JANUARY 2009-REVISED JANUARY 2014

REVISION HISTORY Changes from Revision G (May 2013) to Revision H

	Deleted minimum voltage from voltage range in the document title, features list and description
•	Added 5-A to document title 1
•	Changed listed to recognized in UL FEATURES bullet, also added specific UL number
•	Added SSDs, PCIE, and Fan Control to the APPLICATIONS list 1
•	Added maximum-UV turn-on threshold of 2.9 V sentence to the first paragraph of the DESCRIPTION 1
•	Deleted capacitor, C_{VIN} , and diode from the <i>Typical Application</i> image. Also changed R_{SET} to R_{RSET} and C_{OUT} to C_{LOAD} . Removed voltage range and changed OUT to VOUT. Also removed note on the former C_{OUT} stating that this is only required in systems with lead and/or load inductance
•	Changed C _{OUT} to C _{LOAD} and R _{SET} to R _{RSET} throughout document 1
•	Changed Cout to CVOUT for the power limit parameter in the ELECTRICAL CHARACTERISTICS table
•	Changed current limit value of the ISET description from 125% to 150% in the <i>TERMINAL FUNCTIONS</i> table. Also removed <i>TPS2421 only</i> text form this description
•	Added note for TPS2421-1 to the VIN description in the PIN DESCRIPTION section
•	Changed R_{SET} = 100 kW to R_{RSET} = 100 k Ω in the FAULT CURRENT vs JUNCTION TEMPERATURE graph
•	Changed V _{IN} to V _{VIN} in the functional block diagram, Equation 6, and Equation 7
•	Changed In to V _{VIN} in Equation 21

TPS2590

с	REVISION HISTORY Changes from Revision F (May 2013) to Revision G	Page
•	 Deleted the minimum voltage from the voltage range listed in the document title, features list and description. Added 5-A to document title 	
•	Changed listed to recognized in last Features bullet. Also added 2367 to UL number	1
•		
•	Added UV turn-on threshold and bus voltage text to the first paragraph of the DESCRIPTION	1
•	Deleted ORDERING INFORMATION table	2

		<u> </u>	•
Deleted ORDERING INFORMATION table			

TPS2421-1 TPS2421-2



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Page

TPS25910 SLUSAR6D - SEPTEMBER 2012-REVISED JANUARY 2014 Ch . . The datasheet number will be changing. Change From: Change To: Device Family **TPS2420** SLUS903E SLUS903F **TPS2421-X** SLUS907G **SLUS907H TPS2590** SLUS960F **SLUS960G SLUSAR6D TPS25910** SLUSAR6C The updated datasheet(s) can be accessed by the following link(s): http://www.ti.com/product/TPS2420 http://www.ti.com/product/TPS2421-1 http://www.ti.com/product/TPS2590 http://www.ti.com/product/TPS25910 **Reason for Change:**

To more accurately reflect device characteristics.

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 Draduct Affactad

FIGURE ATTECLES			
TPS2420RSAR	TPS2421-1DDAR	TPS2590RSAR	TPS25910RSAT
TPS2420RSAT	TPS2421-2DDA	TPS2590RSAT	
TPS2421-1DDA	TPS2421-2DDAR	TPS25910RSAR	

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

REVISION HISTORY

hanges from Revision C (May 2013) to Revision D	Page
Deleted the minimum voltage from the voltage range listed in the document title, features list and description	1
Added 6.5-A to document title	1
Changed listed to recognized in last FEATURES bullet	1
Added 2367 to UL number in the FEATURES list. Moved File Number to same list item as UL Recognized	1
Added PCIE and Fan Control to the APPLICATIONS list	1
Deleted where the load is powered by busses up to 20 V from the first paragraph of the DESCRIPTION and	
replaced it with UV turn-on threshold and bus voltage text	1
Deleted ORDERING INFORMATION table	2

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