

PCN Number:	20140822000	PCN Date:	08/29/2014
Title:	Datasheet update: TPS53114/TPS53124/TPS53125/TPS53126/TPS53127/TPS53128/TPS53129		
Customer Contact:	PCN Manager	Phone:	+1(214)480-6037
		Dept:	Quality Services
Proposed 1st Ship Date:	11/29/2014		
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"/>	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

PCN Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification, etc.

The product datasheet(s) is being updated to relax LSL on VREG5 from 4.8V to 4.6V
 Relax USL on RDSon (R_DRVL / Source = -100ma) from 8ohm to 12ohm.
 TPS53125, TPS53127, TPS53128, and TPS53129 datasheets had an additional spec correction to swap Issc parameter MAX and MAX value due to previous polarity issue.

The following change history provides further details.



TPS53114

SLVS887C – APRIL 2009 – REVISED AUGUST 2014

www.ti.com

5 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Revision B (October 2010) to Revision C	Page
• Changed the datasheet to the new TI standard format.....	1
• Added Thermal PWP information	5
• Changed from 4.8 V to 4.6 V.	5
• Changed from 8 to 12 Ω.	5
• Added Figures 8 and 9	8
• Added "The TPS53114 enables system designers to complete the suite of various end equipment power bus regulators with cost effective, low external component count and low standby current solution."	9
• Changed Equation 1	11

11 Revision History

Changes from Original (February 2008) to Revision C	Page
• Changed LSL on VREG5 from 4.8 V to 4.6 V.	7
• Changed USL on $R_{DS(on)}$ ($R_{DRVL} / \text{Source} = -100 \text{ ma}$) from 8 Ω to 12 Ω	7

TPS53125

SLVS947C – OCTOBER 2009 – REVISED AUGUST 2014

www.ti.com

5 Revision History

Changes from Revision B (January 2010) to Revision C	Page
• Changed revision from B-January 2010 to C-May 2014, also copied all text, tables and graphics to new data sheet template.	1
• Added $V_{(ESD)}$ value.	4
• Changed VREG5 row, Min column from 4.8 to 4.6 in ELEC CHARA table,	5
• Changed Changed the R_{DRVL} MAX value for -100 mA From: 8 Ω To: 12 Ω	5
• Changed the I(SSC) Min value From: -1.5 to $-2.5 \mu\text{A}$ and the Max value From: -2.5 To: $-1.5 \mu\text{A}$	6
• Added Application Curves section.	19

TPS53126

SLUS909B – MAY 2009 – REVISED AUGUST 2014

www.ti.com

5 Revision History

Changes from Revision A (July 2013) to Revision B	Page
• Changed the datasheet to the new TI standard format.	1
• Replaced QFN and TSSOP schematics.	1
• Changed V_{VREG5} MIN from 4.8 V to 4.6 V.	5
• Changed R_{DRVL} Source, $I_{DRVLx} = -100 \text{ mA}$ MAX from 8 Ω to 12 Ω	5
• Added Design Parameter and Detailed Design Procedure sections.	19

TPS53127

SLVSA93A – MARCH 2010 – REVISED AUGUST 2014

www.ti.com

5 Revision History

Changes from Original (March 2010) to Revision A	Page
• Changed the data sheet to the new TI format	1
• Added T_A value to the Abs Max table	4
• Added the Handling Ratings table	4
• Added T_A value to the ROC table	4
• Added the Thermal Information table	5
• Changed the V_{VREG5} MIN value From: 4.8 V to 4.6 V	5
• Changed the R_{DRVL} MAX value for -100 mA From: 8 Ω To 12 Ω	5
• Changed the $I_{(SSC)}$ Min value From: -1.5 to -2.5 μ A and the Max value From: -2.5 To: -1.5 μ A	6
• Added the Timing Requirements table	6
• Added the Switching Characteristics table	6
• Added the Layout Example, Figure 28	19

TPS53128

SLVSAE4A – JULY 2010 – REVISED AUGUST 2014

www.ti.com

4 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Original (July 2010) to Revision A	Page
• Changed format to meet latest data sheet standards; added new sections and moved existing sections	1
• Added Eco-mode bullet to Features	1
• Added QFN and TSSOP schematics	1
• Added $V_{(ESD)}$ value	4
• Added thermal information	5
• Changed min for V_{VREG5}	5
• Changed max for R_{DRVL} at -100 mA	5
• Changed the $I_{(SSC)}$ Min value From: -1.5 to -2.5 μ A and the Max value From: -2.5 To: -1.5 μ A	6
• Added Overview section.	10
• Added Device Functional Modes	14
• Added Design Parameter values	16
• Added Power Supply Recommendations	23
• Added Layout Example image	24

5 Revision History

NOTE: Page numbers for previous revisions may differ from page numbers in the current version.

Changes from Original (July 2010) to Revision A	Page
• Changed format to meet latest data sheet standards; added new sections and moved existing sections.....	1
• Added Eco-mode on first page.....	1
• Added QFN and TSSOP schematics	1
• Added $V_{(ESD)}$ value	4
• Added Thermal Information	5
• Changed min for V_{REGS}	5
• Changed max for R_{DRVL} at -100 mA.....	5
• Changed the I(SSC) Min value From: -1.44 to -2.56 μ A and the Max value From: -2.56 To: -1.44 μ A.....	6
• Added Timing Requirements table	6
• Added Overview	8
• Added Device Functional Modes section	11
• Added Application Information	12
• Added Design Parameters table	13
• Added Power Supply Recommendations	19
• Updated Layout Example	20

The datasheet number will be changing.

Device Family	Change From:	Change To:
TPS53114	SLVS887B	SLVS887C
TPS53124	SLUS825B	SLUS825C
TPS53125	SLVS947B	SLVS947C
TPS53126	SLUS909A	SLUS909B
TPS53127	SLVSA93	SLVSA93A
TPS53128	SLVSAE4	SLVSAE4A
TPS53129	SLVSAE6	SLVSAE6A

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/tps53114>

<http://www.ti.com/product/tps53124>

<http://www.ti.com/product/tps53125>

<http://www.ti.com/product/tps53126>

<http://www.ti.com/product/tps53127>

<http://www.ti.com/product/tps53128>

<http://www.ti.com/product/tps53129>

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.				
Product Affected:				
TPS53114PW	TPS53125PW	TPS53127PW	TPS53129PW	
TPS53114PWP	TPS53125PWR	TPS53127PWR	TPS53129PWR	
TPS53114PWPR	TPS53125RGER	TPS53127RGER	TPS53129RGER	
TPS53114PWR	TPS53125RGET	TPS53127RGET	TPS53129RGET	
TPS53124PW	TPS53126PW	TPS53128PW		
TPS53124PWR	TPS53126PWR	TPS53128PWR		
TPS53124RGER	TPS53126RGER	TPS53128RGER		
TPS53124RGET	TPS53126RGET	TPS53128RGET		

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
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