

PCN Number:	20150407000	PCN Date:	04/13/2015
Title:	Datasheet update for TPS65320-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
☐ Assembly Site	☐ Design	☐ Wafer Bump Site	
☐ Assembly Process	☒ Data Sheet	☐ Wafer Bump Material	
☐ Assembly Materials	☐ Part number change	☐ Wafer Bump Process	
☐ Mechanical Specification	☐ Test Site	☐ Wafer Fab Site	
☐ Packing/Shipping/Labeling	☐ Test Process	☐ Wafer Fab Materials	
		☐ Wafer Fab Process	

PCN 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.



TPS65320-Q1

SLVSAY9C – DECEMBER 2012 – REVISED MARCH 2015

www.ti.com

Changes from Revision B (September 2013) to Revision C

Page

• Changed the <i>ESD Ratings</i> table, <i>Feature Description</i> section, <i>Device Functional Modes</i> section, <i>Application and Implementation</i> section, <i>Power Supply Recommendations</i> section, <i>Layout</i> section, <i>Device and Documentation Support</i> section, and <i>Mechanical, Packaging, and Orderable Information</i> section	1
• Updated the <i>Applications</i> section	1
• Updated <i>Features</i> and <i>Description</i> sections	1
• Changed the MIN value for the VIN_LDO supply input from 3.6 to 3 in the <i>Recommended Operating Conditions</i> table	4
• Changed the MAX value for the shutdown supply current from 5 to 7	5
• Added the Initial start-up voltage parameter	5
• Changed the MIN value of the Internal UVLO rising threshold parameter from 2.5 to 2.2	5
• Changed the MIN value of the Operating input voltage (VIN_LDO) from 4 to 3	6
• Updated the FB2 voltage reference test condition	6
• Changed the MAX value of the Quiescent current parameter from 40 to 75 and add T _j to test condition	6
• Added the V _(LDO_OUT) value to the Output capacitor parameter test conditions	7
• Changed the TYP value for the Thermal-shutdown trip point from 170 to 155	7
• Changed the minimum value of the soft-start capacitor from 0.47 nF to 1 nF in the <i>Soft-Start and Tracking Pin (SS/TR)</i> section	12
• Changed the 300-kHz switching frequency application to 500-kHz switching frequency <i>Design Example With 300-kHz Switching Frequency</i> section	30

The datasheet number will be changing.

Device Family	Change From:	Change To:
TPS65320-Q1	SLVSAY9B	SLVSAY9C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/tps65320-q1>

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 PCN:	
None.	
Product Affected:	
TPS65320BQPWPRQ1	TPS65320QPWPRQ1

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
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