PCN Number:	201	20140410000 PCN Date: 04/14/2					e: 04/14/2014	
Title: Design Revision (NBTI Fix for Select TPS40055x Devices)								
Customer Contac	PCN	CN Manager Phone: +1(214)		+1(214)480-6	5037	7 Dept:	Quality Services	
Proposed 1 st Ship Date:		07/14/2	2014	Estimated Avai		d Sample ailability:	Date provided at sample request	
Change Type:		<u> </u>						
Assembly Site			nbly Proces		Assembly Materials			
Design Test Site			Electrical Specification Packing/Shipping/Labeling			Mechanical Specification Test Process		
Wafer Bump Si	e [Wafer Bump Material			\exists	Wafer Bump Process		
Wafer Fab Site			Wafer Fab Materials			Wafer Fab	•	
		Part r	Part number change					
	PCN Details							
Description of Ch	Description of Change:							
This notification is to inform of a design revision for select TPS40055x devices. This design change does not affect the device's guaranteed datasheet specifications or electrical performance. The affected devices are listed in the "Product Affected" section. The table below describes changes that were made: Description of Change Benefit of Change								
Re-design to remove sensitivity over time to negative bias temperature instability (NBTI) under high temperature conditions.Improve reliability								
Reason for Change:								
Improve reliability								
Anticipated impa	t on Fo	orm, Fit,	Function,	Quality or Rel	iabi	lity (posit	ive / negative):	
Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative): None								
Changes to product identification resulting from this PCN:								
Die Rev designator will change as shown in table & sample label below: Current New Die Rev [2P] Die Rev [2P] A C Sample product shipping label to indicate die rev location (not actual product label)								
INSTRUMENTS G4 MADE IN: Malaysia G4 2DC: 2Q: MSL '2 /260C/1 YEAR SEAL DT 03/29/04 OPT: 39 ITEM: 39 LBL: 5A LD T0:1750 ITEM:								

Product Affected:								
MPL2674QPWPR	TPS40055MPW	PREP	TPS40055MPWPREPG4 V		62/05617-01XE			
Qualification Data: Approved 2/14/2014								
This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.								
Qual Vehicle 1: TPS40055PWP								
Package/Die Construction Details								
Assembly Site: TI TAIWAN		# Pins-Designator, Family: 16-PWF			P, HTSSOP			
Fab Process:	Fab Process: LBC4		Die Revision:					
Qualification: 🗌 Plan 🛛 Test Results								
Reliability Test			ditions	Sample Size (PASS/FAIL)				
Electrical Characterization, side by side			Datasheet Parameter	Pass				
Qual Vehicle 2: TPS40057PWP								
Package/Die Construction Details								
Assembly Site: TI TAIWAN		# Pir	ns-Designator, Family:	16-PWF	6-PWP, HTSSOP			
Fab Process: LBC4			Die Revision:	С				
Qualification: 🗌 Plan 🛛 Test Results								
Reliability Test			ditions	Sample Size (PASS/FAIL)				
Latch-up			- JESD78)	6/0				
Electrical Characterization, side by side			Datasheet Parameter	Pass				
High Temp Operating Life			C (1000 Hrs)	80/0				
ESD HBM			0V	3/3 **				
ESD CDM			V	3/0				

** This device fails ESD-HBM due to leakage on the SW pin. The device was released in 2004 with an HBM rating of 1KV. Several SW leakage tests were added to the final test program since RTM. The new SW leakage tests are failing now both on the old and new die rev.

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or to 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