

<b>PCN Number:</b>	20130628004		<b>PCN Date:</b>	06/28/2013	
<b>Title:</b>	Transfer of the TPD4E101DPWR device (Vertical Diode-BD process node) to CFAB Facility				
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Phone:</b>	+1(214)480-6037		<b>Dept:</b> Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	09/28/2013		<b>Estimated Sample Availability:</b>	Date available upon sample request	
<b>Change Type:</b>					
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Design	<input type="checkbox"/>	Electrical Specification	<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 checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input checked="" type="checkbox"/>	Wafer Fab Process
<b>PCN Details</b>					
<b>Description of Change:</b>					
<p>This change notification is to announce the transfer of the TPD4E101DPWR device (Vertical Diode – Bi-Directional process node) from HIJI to the CFAB facility. This will also include a wafer diameter change from 6" to 8".</p>					
<b>Current</b>			<b>New</b>		
Site, process, wafer dia.			Site, process, wafer dia.		
HIJI/ VD-BD, 150mm			CFAB/ VD-BD, 200mm		
<b>Reason for Change:</b>					
Continuity of Supply. HIJI site shutdown.					
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>					
None					
<b>Changes to product identification resulting from this PCN:</b>					
<b>Current</b>					
Chip Site	Chip site code (20L)	Chip country code (21L)			
HIJI	HIJ	JPN			
<b>New</b>					
<b>Chip Site</b>	<b>Chip site code (20L)</b>	<b>Chip country code (21L)</b>			
<b>CFAB</b>	<b>CU3</b>	<b>CHN</b>			
<b>Fab Identification on Topside Symbol Marking:</b>					
Current	HIJI	A1			
<b>New</b>	<b>CFAB</b>	<b>A2</b>			

Sample product shipping label (not actual product label)

 <b>TEXAS INSTRUMENTS</b> MADE IN: Malaysia 2DC: 20:	 <b>G4</b>		(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (20L) CS0: SHE (21L) CCO: USA (22L) AS0: MLA (23L) ACC: MYS
MSL 2 / 260C / 1 YEAR SEAL DT MSL 1 / 235C / UNLIM 03/29/04 OPT: ITEM: 39 <b>LBL: 5A (L)T0:1750</b>			

**Product Affected:**

TPD4E101DPWR

**Qualification Data (Approved 6/11/2013)**

This qualification has been developed for the validation of this change. The qualification data will validate that the proposed change meets the applicable released technical specifications.

**Qual Vehicle: TPD4E101DPWR**

Wafer Fab Site:	CFAB	Metallization:	AlCuTiW
Wafer Fab Process:	VD	Wafer Diameter:	200mm

**Qualification:**  Plan  **Test Results**

Reliability Test	Conditions	Sample Size/Fails		
		Lot#1	Lot#2	Lot#3
HTOL High Temp Op Life	150C (300 Hrs)	77/0	77/0	77/0
Electrical Characterization	-	Pass	-	-
**High Temp. Storage Bake	170C (420 Hrs) <sup>note 1</sup>	77/0	77/0	77/0
**Biased HAST	130C/85%RH (96 Hrs)	77/0	77/0	77/0
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0
**Temperature Cycle	-65C/+150C (500 Cycles)	77/0	77/0	77/0
ESD CDM	500V	3/0	3/0	3/0
ESD HBM	2000V	3/0	3/0	3/0
Latch-up <sup>note 2</sup>	-	N/A	N/A	N/A

\*\*Preconditioning: Level 1-260C

Note 1: 420hrs @ 170C is equivalent to 1000hrs @ 150C storage life bake, based on activation energy of 0.7eV.

Note 2: Latch-up is a power up test to check for current paths from I/O pins to power. The TPD4E101DPWR is a diode device with no power pin-with no concern of an SCR, therefore latch-up testing is not a required test for this qualification.

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	<a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a>
Europe	<a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>
Asia Pacific	<a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>
Japan	<a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>