

PCN Number:	20170711000	PCN Date:	Jul 18, 2017
Title:	Transfer of select LB300 devices from GFAB to FFAB Wafer Fab site		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Oct 18, 2017	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Mechanical Specification
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Packing/Shipping/Labeling
		<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change

PCN Details

Description of Change:

This change notification is to announce the transfer of select LB300 devices from GFAB to the FFAB Wafer Fab site for the selected devices listed in the "Product Affected" section.

Current Fab Site			New Fab Site		
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter
GFAB6	LB300	150 mm	FFAB	LB300	200 mm
GFAB8	LB300	200 mm	FFAB	LB300	200 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

GFAB closure

Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):

None

Changes to product identification resulting from this PCN:

Current:

Current Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
GFAB6	GF6	GBR	Greenock
GFAB8	GF8	GBR	Greenock

New Fab Site:

New Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
FR-BIP-1	TID	DEU	Freising

Sample product shipping label (not actual product label)

 TEXAS INSTRUMENTS

MADE IN: Malaysia
2DC: 20:

MSL 2 / 260C / 1 YEAR	SEAL DT
MSL 1 / 235C / UNLIM	03/29/04

OPT:
ITEM:

LBL: 5A (L)T0:1750



(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T) LOT: 3959047MLA
(4W) TKY (1T) 7523483S12
(P)
(2P) REV: (V) 003317
(20L) CS0: SHE (21L) CCO: USA
(22L) AS0: MLA (23L) ACO: MYS

Product Affected:

LDCV963AIM5/NOPB	LM1117MPX-5.0/NOPB	LM2595T-12/NOPB	LM3480IM3-5.0/NOPB
LDCV963AIM5E/NOPB	LM1117MPX-ADJ/NOPB	LM2595T-3.3/NOPB	LM3480IM3X-12
LDCV963AIM5X/NOPB	LM1117S-ADJ/NOPB	LM2595T-5.0	LM3480IM3X-12/NOPB
LM1084IS-3.3/NOPB	LM1117SX-3.3/NOPB	LM2595T-5.0/NOPB	LM3480IM3X-15/NOPB
LM1084IS-5.0/NOPB	LM1117SX-5.0/NOPB	LM2595T-ADJ	LM3480IM3X-3.3
LM1084IS-ADJ	LM1117SX-ADJ/NOPB	LM2595T-ADJ/0135	LM3480IM3X-3.3/NOPB
LM1084IS-ADJ/NOPB	LM1117T-2.5/NOPB	LM2595T-ADJ/NOPB	LM3480IM3X-5.0
LM1084ISX-3.3/NOPB	LM1117T-3.3/NOPB	LM2596S-12/NOPB	LM3480IM3X-5.0/NOPB
LM1084ISX-5.0/NOPB	LM1117T-5.0/NOPB	LM2596S-3.3	LM385M3-1.2
LM1084ISX-ADJ/NOPB	LM1117T-ADJ/NOPB	LM2596S-3.3/NOPB	LM385M3-1.2/J7001251
LM1084IT-3.3/NOPB	LM2590HVS-3.3/NOPB	LM2596S-5.0	LM385M3-1.2/NOPB
LM1084IT-5.0/NOPB	LM2590HVS-5.0/NOPB	LM2596S-5.0/NOPB	LM385M3-2.5
LM1084IT-ADJ/NOPB	LM2590HVS-ADJ/NOPB	LM2596S-ADJ/NOPB	LM385M3-2.5/NOPB
LM1085I-ADJ MDC	LM2590HVSX-3.3/NOPB	LM2596SX-12/J7001724	LM385M3X-1.2
LM1085IS-12/NOPB	LM2590HVSX-5.0/NOPB	LM2596SX-12/NOPB	LM385M3X-1.2/J7001047
LM1085IS-3.3	LM2590HVSX-ADJ/NOPB	LM2596SX-3.3	LM385M3X-1.2/NOPB
LM1085IS-3.3/NOPB	LM2590HVT-5.0/NOPB	LM2596SX-3.3/J7001682	LM385M3X-2.5
LM1085IS-5.0/NOPB	LM2590HVT-ADJ/NOPB	LM2596SX-3.3/NOPB	LM385M3X-2.5/NOPB
LM1085IS-ADJ	LM2591HVS-3.3/NOPB	LM2596SX-5.0/J7000919	LM397MF
LM1085IS-ADJ/NOPB	LM2591HVS-5.0	LM2596SX-5.0/J7001729	LM397MF/NOPB
LM1085ISX-3.3	LM2591HVS-5.0/NOPB	LM2596SX-5.0/NOPB	LM397MFX/HFLF
LM1085ISX-3.3/NOPB	LM2591HVS-ADJ	LM2596SX-ADJ	LM397MFX/NOPB
LM1085ISX-5.0/NOPB	LM2591HVS-ADJ/NOPB	LM2596SX-ADJ/ELLI955	LMS1585ACS-1.5
LM1085ISX-ADJ	LM2591HVSX-3.3/NOPB	LM2596SX-ADJ/J7001732	LMS1585ACS-1.5/NOPB
LM1085ISX-ADJ/NOPB	LM2591HVSX-5.0/NOPB	LM2596SX-ADJ/J7002158	LMS1585ACS-3.3
LM1085IT-12/NOPB	LM2591HVSX-ADJ/NOPB	LM2596SX-ADJ/NOPB	LMS1585ACS-3.3/NOPB
LM1085IT-3.3/NOPB	LM2591HVSX-ADJ/S7001827	LM2596T-12/LF03	LMS1585ACSX-1.5/NOPB
LM1085IT-5.0	LM2591HVT-3.3/NOPB	LM2596T-12/NOPB	LMS1585ACSX-3.3/J7001770
LM1085IT-5.0/NOPB	LM2591HVT-5.0	LM2596T-12/SL110273	LMS1585ACSX-3.3/NOPB
LM1085IT-ADJ	LM2591HVT-5.0/NOPB	LM2596T-3.3/LF03	LMS1585ACSX-ADJ/NOPB
LM1085IT-ADJ/NOPB	LM2591HVT-ADJ/NOPB	LM2596T-3.3/NOPB	LMS1585ACT-1.5
LM1086-ADJ MDC	LM2592HVS-3.3	LM2596T-5.0	LMS1585ACT-1.5/NOPB
LM1086CS-2.5/NOPB	LM2592HVS-3.3/NOPB	LM2596T-5.0/LF03	LMS1585ACT-3.3/NOPB
LM1086CS-3.3/NOPB	LM2592HVS-5.0/NOPB	LM2596T-5.0/NOPB	LMS1585AIS-1.5
LM1086CS-5.0/NOPB	LM2592HVS-ADJ	LM2596T-5.0/S7002372	LMS1585AIS-1.5/NOPB
LM1086CS-ADJ	LM2592HVS-ADJ/NOPB	LM2596T-ADJ	LMS1585AIS-3.3/NOPB
LM1086CS-ADJ/NOPB	LM2592HVSX-3.3/NOPB	LM2596T-ADJ/J7001689	LMS1585AISX-3.3/NO
LM1086CSX-2.5/NOPB	LM2592HVSX-5.0/NOPB	LM2596T-ADJ/LB05	LMS1587CS-1.5/NOPB
LM1086CSX-3.3/J7001710	LM2592HVSX-ADJ	LM2596T-ADJ/LF02	LMS1587CS-3.3
LM1086CSX-3.3/NOPB	LM2592HVSX-ADJ/E7001842	LM2596T-ADJ/NOPB	LMS1587CS-3.3/NOPB
LM1086CSX-ADJ/NOPB	LM2592HVSX-ADJ/NOPB	LM2597HVM-12/NOPB	LMS1587CS-ADJ
LM1086CT-3.3/NOPB	LM2592HVT-3.3/NOPB	LM2597HVM-3.3/NOPB	LMS1587CS-ADJ/NOPB
LM1086CT-5.0/NOPB	LM2592HVT-5.0/NOPB	LM2597HVM-5.0	LMS1587CSX-1.5/NOPB
LM1086CT-ADJ/NOPB	LM2592HVT-ADJ	LM2597HVM-5.0/NOPB	LMS1587CSX-3.3
LM1086ILD-3.3/NOPB	LM2592HVT-ADJ/NOPB	LM2597HVM-ADJ	LMS1587CSX-3.3/NOPB

LM1086IS-1.8/NOPB	LM2593HVS-3.3/NOPB	LM2597HVM-ADJ/NOPB	LMS1587CSX-ADJ/NOPB
LM1086IS-3.3	LM2593HVS-5.0/NOPB	LM2597HVMX-12/NOPB	LMS1587CT-3.3
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LM1086IT-3.3/S4000135	LM2594HVM-3.3/NOPB	LM2597M-5.0/NOPB	LMS1587ISX-ADJ
LM1086IT-5.0/NOPB	LM2594HVM-5.0	LM2597M-ADJ	LMS1587ISX-ADJ/NOPB
LM1086IT-5.0/S5002153	LM2594HVM-5.0/NOPB	LM2597M-ADJ/NOPB	LMS1587IT-1.5/NOPB
LM1086IT-ADJ/NOPB	LM2594HVM-ADJ	LM2597MX-12/NOPB	LMS8117ADT-3.3/NOPB
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LM1117DTX-1.8/NOPB	LM2594HVMX-ADJ/S5000250	LM2598S-12/NOPB	LMS8117AMPX-1.8/NOPB
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LM1117IDTX-ADJ/NOPB	LM2594MX-5.0/E7001625	LM2599S-12/NOPB	LMV431AIMFX/NOPB
LM1117ILD-ADJ/NOPB	LM2594MX-5.0/NAK2	LM2599S-3.3/NOPB	LMV431AIZ/LFT3
LM1117IMP-3.3/NOPB	LM2594MX-5.0/NOPB	LM2599S-5.0	LMV431AIZ/NOPB
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LM1117IMP-ADJ/NOPB	LM2594MX-ADJ/E5001477	LM2599S-ADJ	LMV431BCM5X/NOPB
LM1117IMP-ADJ/S1	LM2594MX-ADJ/NOPB	LM2599S-ADJ/NOPB	LMV431BIMF
LM1117IMPX-3.3/NOPB	LM2594N-12/NOPB	LM2599SX-12/NOPB	LMV431BIMF/NOPB
LM1117IMPX-5.0/NOPB	LM2594N-3.3/NOPB	LM2599SX-3.3/NOPB	LMV431BIMFX/NOPB
LM1117IMPX-ADJ/NOPB	LM2594N-5.0/NOPB	LM2599SX-5.0/NOPB	LMV431CM5

LM1117LD-1.8/NOPB	LM2594N-ADJ/NOPB	LM2599SX-ADJ/NOPB	LMV431CM5/NOPB
LM1117LD-2.5/NOPB	LM2595S-12	LM2599T-12/NOPB	LMV431CM5X/NOPB
LM1117LD-3.3/NOPB	LM2595S-12/NOPB	LM2599T-5.0/NOPB	LMV431CZ/NOPB
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LM1117LDX-1.8	LM2595S-3.3/NOPB	LM2599T-ADJ/NOPB	LMV431IM5/NOPB
LM1117LDX-1.8/NOPB	LM2595S-5.0	LM321MF	LMV431IM5X/J5000362
LM1117LDX-ADJ/NOPB	LM2595S-5.0/NOPB	LM321MF/NOPB	LMV431IM5X/J7002669
LM1117MP-1.8/NOPB	LM2595S-ADJ	LM321MFX	LMV431IM5X/NOPB
LM1117MP-2.5/NOPB	LM2595S-ADJ/NOPB	LM321MFX/NOPB	TLV76012DBZR
LM1117MP-3.3/NOPB	LM2595SX-12/NOPB	LM3480IM3-12	TLV76012DBZT
LM1117MP-5.0/NOPB	LM2595SX-3.3/E5000295	LM3480IM3-12/NOPB	TLV76015DBZR
LM1117MP-ADJ/NOPB	LM2595SX-3.3/NOPB	LM3480IM3-15/NOPB	TLV76015DBZT
LM1117MPX-1.8/NOPB	LM2595SX-5.0	LM3480IM3-3.3	TLV76033DBZR
LM1117MPX-2.5/NOPB	LM2595SX-5.0/NOPB	LM3480IM3-3.3/NOPB	TLV76033DBZT
LM1117MPX-3.3	LM2595SX-ADJ	LM3480IM3-5.0	TLV76050DBZR
LM1117MPX-3.3/NOPB	LM2595SX-ADJ/J7001721	LM3480IM3-5.0/J7000604	TLV76050DBZT
LM1117MPX-5.0	LM2595SX-ADJ/NOPB		

Qualification Report

FFAB Process qualification LB300 - RLM2592B50A - LM2592HVT-5.0/NOPB

Approve Date 29-Jun-2017

Product Attributes

Attributes	Qual Device: LM2592HVT-5.0/NOPB
Assembly Site	TIEM
Package Family	TO-220
Wafer Fab Supplier	FFAB
Wafer Process	LB300

- Qual Devices qualified at LEVEL1-NACG: Devices LM2592HVT-5.0/NOPB_CL, LM2592HVT-5.0/NOPB_QL

Qualification Results

Data Displayed as: Number of lots / Total sample size / Total failed

Type	Test Name / Condition	Duration	Qual Device: LM2592HVT-5.0/NOPB
AC	Autoclave 121C	96 Hours	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	30/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	3/231/0
HBM	ESD - HBM	2500 V	3/9/0
CDM	ESD - CDM	1500 V	3/9/0
HTOL	Life Test, 125C	1000 Hours	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	3/231/0
LU	Latch-up	(per JESD78)	3/18/0
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	Pass
MQ	Manufacturability (Wafer Fab)	(per mfg. Site specification)	Pass
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0
WLR	Wafer level Reliability	(per mfg. Site specification)	Pass

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

- The following are equivalent HTOL options based on an activation energy of 0.7eV: 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

- The following are equivalent HTSL options based on an activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours

- The following are equivalent Temp Cycle options per JESD47: -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: <http://www.ti.com/>

Green/Pb-free Status:

Qualified Pb-Free (SMT) and Green

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