



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20180402000
Transfer of select SLM devices from GFAB to FFAB Wafer Fab site
Change Notification / Sample Request

Date: April 12, 2018
To: MOUSER PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

PCN Team
SC Business Services

20180402000
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LM2940CS-12/NOPB	null
LM2940CS-15/NOPB	null
LM2940CS-5.0/NOPB	null
LM2940CS-9.0/NOPB	null
LM2940CSX-12/NOPB	null
LM2940CSX-15/NOPB	null
LM2940CSX-5.0/NOPB	null
LM2940CSX-9.0/NOPB	null
LM2940CT-12/NOPB	null
LM2940CT-15/NOPB	null
LM2940CT-5.0/LF01	null
LM2940CT-5.0/NOPB	null
LM2940CT-9.0/NOPB	null
LM2940IMP-10/NOPB	null
LM2940IMP-12/NOPB	null
LM2940IMP-15/NOPB	null
LM2940IMP-5.0/NOPB	null
LM2940IMP-9.0/NOPB	null
LM2940IMPX-10/NOPB	null
LM2940IMPX-5.0/NOPB	null
LM2940IMPX-8.0/NOPB	null
LM2940LD-12/NOPB	null
LM2940LD-5.0/NOPB	null
LM2940S-10	null
LM2940S-12/NOPB	null
LM2940S-5.0/NOPB	null
LM2940S-8.0/NOPB	null
LM2940S-9.0/NOPB	null
LM2940SX-10	null
LM2940SX-10/NOPB	null
LM2940SX-12/NOPB	null
LM2940SX-5.0/NOPB	null
LM2940SX-8.0/NOPB	null
LM2940T-10.0/NOPB	null
LM2940T-12.0/NOPB	null
LM2940T-5.0/LF08	null
LM2940T-5.0/NOPB	null
LM2940T-8.0/NOPB	null
LM2940T-9.0/NOPB	null
LM2941CS/NOPB	null
LM2941CSX/NOPB	null
LM2941CT/LF03	null
LM2941CT/NOPB	null
LM2941LD/NOPB	null
LM2941S	null
LM2941S/NOPB	null
LM2941SX/NOPB	null
LM2941T/NOPB	null
LM317AEMP	null
LM317AEMP/NOPB	null
LM317AEMPX/NOPB	null
LM317AMDT/NOPB	null
LM317AMDTX/NOPB	null
LM317AT	null
LM317AT/NOPB	null
LM317EMP/NOPB	null
LM317EMPX/NOPB	null
LM317HVT/NOPB	null
LM317LM/NOPB	null
LM317LMX/NOPB	null
LM317LZ/LFT7	null
LM317LZ/NOPB	null

LM317S/NOPB	null
LM317SX/NOPB	null
LM317T	null
LM317T/NOPB	null
LM340AT-5.0/NOPB	null
LM340MP-5.0/NOPB	null
LM340MPX-5.0/NOPB	null
LM340S-12/NOPB	null
LM340S-5.0	null
LM340S-5.0/NOPB	null
LM340SX-12/NOPB	null
LM340SX-5.0/NOPB	null
LM340T-12/NOPB	null
LM340T-15/NOPB	null
LM340T-5.0	null
LM340T-5.0/LF01	null
LM340T-5.0/NOPB	null
LM3940IMP-3.3/NOPB	null
LM3940IMPX-3.3/NOPB	null
LM3940IS-3.3/NOPB	null
LM3940ISX-3.3/NOPB	null
LM3940IT-3.3/NOPB	null
LM7805CT/NOPB	null
LM7805MP/NOPB	null
LM7805MPX/NOPB	null
LM7805S/NOPB	null
LM7805SX/NOPB	null
LM7812CT/NOPB	null
LM7812S/NOPB	null
LM7812SX/NOPB	null
LM7815CT/NOPB	null
LP395Z/NOPB	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20180402000		PCN Date:	Apr 12, 2018																									
Title:	Transfer of select SLM devices from GFAB to FFAB Wafer Fab site																												
Customer Contact:	PCN Manager		Dept:	Quality Services																									
Proposed 1st Ship Date:	Jul 12, 2018		Estimated Sample Availability:	Date provided at sample request.																									
Change Type:																													
☐ Assembly Site	☐ Assembly Process	☐ Assembly Materials																											
☐ Design	☐ Electrical Specification	☐ Mechanical Specification																											
☐ Test Site	☐ Packing/Shipping/Labeling	☐ Test Process																											
☐ Wafer Bump Site	☐ Wafer Bump Material	☐ Wafer Bump Process																											
☒ Wafer Fab Site	☒ Wafer Fab Materials	☐ Wafer Fab Process																											
	☐ Part number change																												
PCN Details																													
Description of Change:																													
This change notification is to announce the transfer of select SLM devices from GFAB to the FFAB Wafer Fab site for the selected devices listed in the "Product Affected" section.																													
<table border="1"> <thead> <tr> <th colspan="3">Current Fab Site</th> <th colspan="3">New Fab Site</th> </tr> <tr> <th>Current Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> <th>New Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> </tr> </thead> <tbody> <tr> <td>GFAB6</td> <td>SLM</td> <td>150 mm</td> <td>FFAB</td> <td>SLM</td> <td>200 mm</td> </tr> <tr> <td>GFAB8</td> <td>SLM</td> <td>200 mm</td> <td>FFAB</td> <td>SLM</td> <td>200 mm</td> </tr> </tbody> </table>						Current Fab Site			New Fab Site			Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter	GFAB6	SLM	150 mm	FFAB	SLM	200 mm	GFAB8	SLM	200 mm	FFAB	SLM	200 mm
Current Fab Site			New Fab Site																										
Current Fab Site	Process	Wafer Diameter	New Fab Site	Process	Wafer Diameter																								
GFAB6	SLM	150 mm	FFAB	SLM	200 mm																								
GFAB8	SLM	200 mm	FFAB	SLM	200 mm																								
Qual details are provided in the Qual Data Section.																													
Reason for Change:																													
Greenock, Scotland (GFAB) Wafer Fab site 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: 39 LBL: 5A (L)T0:1750 SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483S12 (P) (2P) REV: (V) 0033517 (20L) CS0: SHE (21L) CCO:USA (22L) AS0:MLA (23L) ACO: MYS																													
Product Affected:																													
LM2940C-12 MWC	LM2940S-12/NOPB	LM2941SX/SL163215	LM340MP-5.0																										
LM2940CS-12	LM2940S-5.0	LM2941T	LM340MP-5.0/NOPB																										
LM2940CS-12/NOPB	LM2940S-5.0/NOPB	LM2941T/LB03	LM340MPX-5.0/NOPB																										

LM2940CS-15	LM2940S-8.0/NOPB	LM2941T/LF03	LM340S-12/NOPB
LM2940CS-15/NOPB	LM2940S-9.0/NOPB	LM2941T/NOPB	LM340S-5.0
LM2940CS-5.0	LM2940SX-10	LM2941T/SL108980	LM340S-5.0/NOPB
LM2940CS-5.0/NOPB	LM2940SX-10/NOPB	LM317A MWC	LM340SX-12/NOPB
LM2940CS-9.0/NOPB	LM2940SX-12	LM317AEMP	LM340SX-5.0
LM2940CSX-12	LM2940SX-12/NOPB	LM317AEMP/NOPB	LM340SX-5.0/NOPB
LM2940CSX-12/NOPB	LM2940SX-5.0	LM317AEMPX	LM340T-12
LM2940CSX-15/NOPB	LM2940SX-5.0/NOPB	LM317AEMPX/NOPB	LM340T-12/NOPB
LM2940CSX-5.0	LM2940SX-8.0/NOPB	LM317AMDT	LM340T-15
LM2940CSX-5.0/NOPB	LM2940SX-9.0/NOPB	LM317AMDT/NOPB	LM340T-15/NOPB
LM2940CSX-9.0/NOPB	LM2940T-10.0	LM317AMDTX	LM340T-5.0
LM2940CT-12	LM2940T-10.0/NOPB	LM317AMDTX/NOPB	LM340T-5.0/LF01
LM2940CT-12/NOPB	LM2940T-12.0	LM317AT	LM340T-5.0/NOPB
LM2940CT-15	LM2940T-12.0/NOPB	LM317AT/E7001847	LM3940IMP-3.3
LM2940CT-15/NOPB	LM2940T-5.0	LM317AT/NOPB	LM3940IMP-3.3/NOPB
LM2940CT-5.0	LM2940T-5.0/LF08	LM317EMP	LM3940IMPX-3.3
LM2940CT-5.0/LF01	LM2940T-5.0/NOPB	LM317EMP/NOPB	LM3940IMPX-3.3/NOPB
LM2940CT-5.0/NOPB	LM2940T-8.0	LM317EMPX/NOPB	LM3940IS-3.3
LM2940CT-9.0/NOPB	LM2940T-8.0/NOPB	LM317HVT/NOPB	LM3940IS-3.3/NOPB
LM2940IMP-10/NOPB	LM2940T-9.0	LM317LM/NOPB	LM3940ISX-3.3
LM2940IMP-12/NOPB	LM2940T-9.0/NOPB	LM317LMX	LM3940ISX-3.3/NOPB
LM2940IMP-15	LM2941CS	LM317LMX/NOPB	LM3940IT-3.3
LM2940IMP-15/NOPB	LM2941CS/NOPB	LM317LZ/LFT1	LM3940IT-3.3/NOPB
LM2940IMP-5.0	LM2941CSX/NOPB	LM317LZ/LFT2	LM7805CT
LM2940IMP-5.0/NOPB	LM2941CT	LM317LZ/LFT3	LM7805CT/NOPB
LM2940IMP-9.0/NOPB	LM2941CT/LF03	LM317LZ/LFT4	LM7805MP/NOPB
LM2940IMPX-10/NOPB	LM2941CT/LF04	LM317LZ/LFT7	LM7805MPX/NOPB
LM2940IMPX-12/NOPB	LM2941CT/NOPB	LM317LZ/NOPB	LM7805S/NOPB
LM2940IMPX-5.0/NOPB	LM2941LD	LM317S/NOPB	LM7805SX/NOPB
LM2940IMPX-8.0/NOPB	LM2941LD/NOPB	LM317SX/NOPB	LM7812CT/NOPB
LM2940LD-12	LM2941LDX/NOPB	LM317T	LM7812S/NOPB
LM2940LD-12/NOPB	LM2941S	LM317T/E7001848	LM7812SX/NOPB
LM2940LD-5.0/NOPB	LM2941S/NOPB	LM317T/LF01	LM7815CT/NOPB
LM2940S-10	LM2941SX	LM317T/NOPB	LP395Z/LFT1
LM2940S-10/NOPB	LM2941SX/NOPB	LM340AT-5.0	LP395Z/NOPB
LM2940S-12	LM2941SX/S4000103	LM340AT-5.0/NOPB	

Qualification Report

New process qualification in FFAB on SLM (Zener diode) process-LM2941T/NOPB 1A Low Dropout Adjustable Approved 28-Mar-2018

Product Attributes

Attributes	Qual Device: LM2941T/NOPB	QBS Process Reference: LM2576HVT-5.0/NOPB
Assembly Site	TIEM-AT	TIEM-AT
Package Family	TO-220	TO-220
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	FFAB	FFAB
Wafer Fab Process	SLM	SLM

- QBS: Qual By Similarity

- Qual Device LM2941T/NOPB-QL is qualified at LEVEL1-NACG

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM2941T/NOPB	QBS Process Reference: LM2576HVT-5.0/NOPB
AC	Autoclave, 121C	96 Hours	-	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	2/60/0	3/90/0
ELFR	Early Life Failure Rate, 125C	48 Hours	-	3/2400/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
HBM	ESD - HBM	2500 V	1/3/0	3/9/0
CDM	ESD - CDM	750 V	1/3/0	3/9/0
HTOL	Life Test, 125C	1000 Hours	2/154/0	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/231/0
LU	Latch-up	(per JESD78)	1/6/0	3/18/0
SD	Solderability	Pb Free	-	1/15/0
SD	Solderability	Pb	-	1/15/0
TC	Temperature Cycle, -55/150C	1000 Cycles	-	3/231/0
WBP	Bond Pull	Wires	-	1/30/0
WBS	Ball Bond Shear	Wires	-	1/30/0

- 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
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Japan	PCNJapanContact@list.ti.com