

PCN Number:	20180816000.1	PCN Date:	Aug 20, 2018
Title:	Transfer of select SLM-CCR devices from GFAB to FFAB Wafer Fab site		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Nov 20, 2018	Estimated Sample Availability:	Date provided at sample request.
Change Type:			
<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 checked="" 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 SLM-CCR devices from GFAB to the FFAB (FR-BIP-1) 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	SLM-CCR	150 mm	FFAB	SLM-CCR	200 mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Greenock, Scotland (GFAB) Wafer Fab site closure. ISO/IATF recertification will not be pursued.

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

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)

Product Affected:

LM34AH	LM34DM/NOPB	LM35CAZ/NOPB	LM35DMX
LM34AH/NOPB	LM34DMX/NOPB	LM35CH	LM35DMX/NOPB
LM34CAH	LM34DZ/LFT7	LM35CH/NOPB	LM35DT
LM34CAH/NOPB	LM34DZ/NOPB	LM35CZ/LFT1	LM35DT/NOPB
LM34CAZ/NOPB	LM35AH	LM35CZ/NOPB	LM35DZ/LFT1

LM34CZ/NOPB	LM35AH/NOPB	LM35DH	LM35DZ/LFT4
LM34DH	LM35CAH	LM35DH/NOPB	LM35DZ/NOPB
LM34DH/NOPB	LM35CAH/NOPB	LM35DM	LM35H
LM34DM	LM35CAZ/LFT4	LM35DM/NOPB	LM35H/NOPB

Qualification Report
FFAB SLM-CCR Technology Qualification
Approve Date 09-Aug-2018

Product Attributes

Attributes	Qual Device: LM35CZ/NOPB	QBS Process Reference: LM2576HVT-5.0/NOPB
Assembly Site	JCET CHUZHOU	TIEM-AT
Package Family	TO-92-N1	TO-220
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	FFAB	FFAB
Wafer Process	SLM-CCR	SLM

- QBS: Qual By Similarity

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: LM35CZ/NOPB	QBS Process Reference: LM2576HVT-5.0/NOPB
AC	Autoclave, 121C	96 Hours	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	3/90/0	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	2000 V	1/3/0	-
HBM	ESD - HBM	2500 V	-	3/9/0
CDM	ESD - CDM	1000 V	1/3/0	-
CDM	ESD - CDM	750 V	-	3/9/0
HTOL	Life Test, 125C	1000 Hours	3/231/0	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
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	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
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
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