12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20230209000.1
Qualification of DMOS6 as an additional Fab site option for select LBC9 devices
Change Notification / Sample Request

Date: February 09, 2023
To: TOKYO ELECTRON DEVICE (DSTR) 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.

Texas Instruments requires acknowledgement of 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 samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

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 or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the PCN Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact your local Field Sales Representative.

PCN Team
SC Business Services

20230209000.1
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
TLV62568APDRLR	null
TLV62569APDRLR	null
TLV62568APDRLT	null
TLV62568ADRLT	null
TLV62569ADRLR	null
TLV62569ADRLT	null
TLV62568ADRLR	null

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

PCN Number:	20230209000.1	PCN Date:	February 09, 2023
Title:	Qualification of DMOS6 as an additional Fab site option for select LBC9 devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	May 9, 2023	Sample requests accepted until:	Mar 9, 2023*

***Sample requests received after March 9, 2023 will not be supported.**

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:

Texas Instruments is pleased to announce the qualification of its DMOS6 fabrication facility as an additional Wafer Fab source for the selected devices listed in the "Product Affected" section.

Current Fab Site			Additional Fab Site		
Current Fab Site	**Process**	**Wafer Diameter**	**New Fab Site**	**Process**	**Wafer Diameter**
RFAB	LBC9	300mm	DMOS6	LBC9	300mm

Qual details are provided in the Qual Data Section.

Reason for Change:

Continuity of supply.

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

None

Changes to product identification resulting from this PCN:

Fab Site Information:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
RFAB	RFB	USA	Richardson
DMOS6	**DM6**	**USA**	**Dallas**

Sample product shipping label (not actual product label)

Product Affected:

TLV62568ADRLR	TLV62568APDRLR	TLV62569ADRLR	TLV62569APDRLR
TLV62568ADRLT	TLV62568APDRLT	TLV62569ADRLT	TLV62569APDRLT

Qualification Report

Approve Date 02-Feb-2023

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TLV62568APDRLR	QBS Process Reference: TLV62569DBVR	QBS Product and Package Reference: BQ25150YFPT
AC	Autoclave 121C	96 Hours	-	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	3/90/0	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	-	3/2400/0	3/3000/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0	3/231/0
HBM	ESD - HBM	2000 V	1/3/0	3/9/0	-
CDM	ESD - CDM	500 V	1/3/0	3/9/0	-
HTOL	Life Test, 125C	1000 Hours	-	3/231/0	-
HTOL	Life Test, 150C	300 Hours		-	3/231/0
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	3/231/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	3/231/0	3/231/0

- QBS: Qual By Similarity
- Qual Device TLV62568APDRLR is qualified at LEVEL1-260C
- 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 contact shown below, or you can contact your local Field Sales Representative.

Location	E-Mail
WW Change Management Team	PCN_ww_admin_team@list.ti.com