



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20220218000.1
DRV5032 Product Family Process & Design Change
Change Notification / Sample Request

Date: February 18, 2022

To: Digi-Key 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 Team (PCN_ww_admin_team@list.ti.com). For sample requests or sample related questions, contact the TI Samples Team at pcn_sr_team@list.ti.com.

PCN Team
SC Business Services

20220218000.1

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
DRV5032FADBZR	null
DRV5032FADBZT	null
DRV5032FBDBZR	null
DRV5032FBDBZT	null
DRV5032FCDBZR	null
DRV5032FCDBZT	null

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

PCN Number:	20220218000.1	PCN Date:	February 18, 2022
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Title: DRV5032 Product Family Process & Design Change

Customer Contact: [PCN Manager](#) **Dept:** Quality Services

Proposed 1st Ship Date: May 18, 2022 **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 checked="" 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 type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials	<input checked="" type="checkbox"/>	Wafer Fab Process
<input type="checkbox"/>		<input type="checkbox"/>	Part number change		

PCN Details

Description of Change:

Texas Instruments is pleased to announce the qualification of a new process technology for the DRV5032 family of devices. As a result of the change from the LBC8 to LBC9 process technology, there was also a design change to the products.

Device Family	Current Process Technology	New Process Technology
DRV5032	LBC8	LBC9

Affected devices are listed in the Product Affected section of this document.

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:

Die Rev designator will change as shown in the table and sample label below:

Current	New
Die Rev [2P]	Die Rev [2P]
A	B

Sample product shipping label (not actual product label)

Product Affected:

DRV5032FADBZR	DRV5032FBDBZR	DRV5032FCDBZR
DRV5032FADBZT	DRV5032FBDBZT	DRV5032FCDBZT

Qualification Report

Approve Date 17-Feb-2022

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

Type	Test Name / Condition	Duration	Qual Device: <u>DRV5032FADBZR</u>	QBS Product Reference: <u>TMAG5231B1DQDBZR</u>	QBS Package Reference: <u>TL431LIQBDBZ</u>
AC	Autoclave 121C	96/hrs @121C	-	-	3/231/0
CDM	ESD - CDM	1500 V	-	1/3/0	3/9/0
ED	Electrical Characterization	Per Datasheet Parameters	1/30/0	1/30/0	-
HAST	Biased HAST, 130C/85%RH	96	-	1/77/0	3/231/0
HBM	ESD - HBM	4000 V	-	1/3/0	-
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 150C	1000/hrs @150C	-	-	3/231/0
LU	Latch-up	Latchup1/25C	-	1/6/0	-
LU	Latch-up	Latchup2/125C	-	1/6/0	-
MQ	Manufacturability (Assembly)	(per mfg. Site specification)	1/Pass	1/Pass	3/3/0
MQ	Manufacturability (Wafer Fab)	(per mfg. Site specification)	1/Pass	1/Pass	3/3/0
MSL	Moisture Sensitivity, L1	ATE	-	2/24/0	3/36/0
TC	Temperature Cycle, -65/150C	500	-	3/231/0	2/160/0
TC	Temperature Cycle, -65/150C	750	-	3/231/0	-
UHASt	Unbiased HAST 130C/85%RH	96	-	3/251/0	-
VM	Visual Quality Reliability Inspection	Post Temp Cycle (750 cycles)	-	3/6/0	-

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

- QBS: Qual By Similarity

- Qual Device DRV5032FADBZR is qualified at LEVEL1-260C

- 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 JEDEC47 : -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
WW PCN Team	PCN_ww_admin_team@list.ti.com

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