

PCN Number:	20221214001.1	PCN Date:	December 16, 2022
Title:	Qualification of DMOS6 as an additional Fab site for select LBC9 devices		
Customer Contact:	PCN Manager	Dept:	Quality Services
Proposed 1st Ship Date:	Mar 16, 2023	Sample requests accepted until:	Jan 16, 2023*

***Sample requests received after January 16, 2023 will not be supported.**

Change Type:

<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design	<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Data Sheet	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change	<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site	<input checked="" type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process	<input type="checkbox"/>	Wafer Fab Materials
				<input type="checkbox"/>	Wafer Fab Process

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

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:

DRV5032FADBZR	DRV5032FBDBZR	DRV5032FCDBZR
DRV5032FADBZT	DRV5032FBDBZT	DRV5032FCDBZT

Qualification Report
Approve Date 15-FEBRUARY -2022

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: DRV5032FADBZR	Qual Device: DRV5032FBDBZR	Qual Device: DRV5032FCDBZR	QBS Reference: SM12778B0YBHR	QBS Reference: DRV5015A2EDBZRQ1	QBS Reference: DRV5015A3FEDBZRQ1	QBS Reference: TMAG5231B1DQDBZR	QBS Reference: DRV5032FBDBZR	QBS Reference: DRV5032FCDBZR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	-	-	-	1/77/0	-	-
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	-	-	-	1/77/0	2/156/0	-	-	-
UHAST	A3	Autoclave	121C/15psig	96 Hours	-	-	-	-	1/77/0	2/154/0	-	-	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	-	-	-	-	-	-	3/231/0	-	-
TC	A4	Temperature Cycle	-40C/85C	1000 Cycles	-	-	-	3/231/0	-	-	-	-	-
TC	A4	Temperature Cycle	-55/125C	700 Cycles	-	-	-	3/231/0	-	-	-	-	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	-	-	-	-	-	3/231/0	-	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	-	-	-	3/231/0	-	-
HTSL	A6	High Temperature Storage Life	175C	1000 Hours	-	-	-	-	-	1/77/0	-	-	-
HTOL	B1	CL (FF)	125C	1000 Hours	-	-	-	1/45/0	-	-	-	-	-
HTOL	B1	CL (FS)	125C	1000 Hours	-	-	-	1/32/0	-	-	-	-	-
HTOL	B1	CL (SF)	125C	1000 Hours	-	-	-	1/32/0	-	-	-	-	-
HTOL	B1	CL (SS)	125C	1000 Hours	-	-	-	1/45/0	-	-	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	3/231/0	-	-	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	-	-	-	3/231/0	-	-
HTOL	B1	Life Test	150C	1000 Hours	-	-	-	-	-	3/231/0	-	-	-
ELFR	B2	ELFR	125C	48 Hours	-	-	-	3/3000/0	-	-	-	-	-
ELFR	B2	Early Life Failure Rate	150C	48 Hours	-	-	-	-	-	2/1600/0	-	-	-

- QBS: Qual By Similarity
- Qual Device DRV5032FADBZR is qualified at MSL1 260C
- Qual Device DRV5032FBDBZR is qualified at MSL1 260C
- Qual Device DRV5032FCDBZR is qualified at MSL1 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 below or your local Field Sales Representative.

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

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disdaims responsibility for,

and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.