PCN Number:	20231207000.1	**PCN Date:**	December 07, 2023
Title:	Qualification of RFAB as an additional Fab site option for select ABCD6 devices		
Customer Contact:	Change Management team	**Dept:**	Quality Services
Proposed 1st Ship Date:	Mar 7, 2024	**Estimated Sample Availability:**	Jan 7, 2024*

***Sample requests received after January 7, 2024 will not be supported.**

Change Type:

☐	Assembly Site	☐	Design	☐	Wafer Bump Material
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process
☐	Assembly Materials	☐	Part number change	☒	Wafer Fab Site
☐	Mechanical Specification	☐	Test Site	☒	Wafer Fab Materials
☐	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process

PCN Details

Description of Change:

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

Current Fab Site			Additional Fab Site		
Current Fab Site	**Process**	**Wafer Diameter**	**Additional Fab Site**	**Process**	**Wafer Diameter**
MAINEFAB	ABCD6	200 mm	RFAB	ABCD6	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):

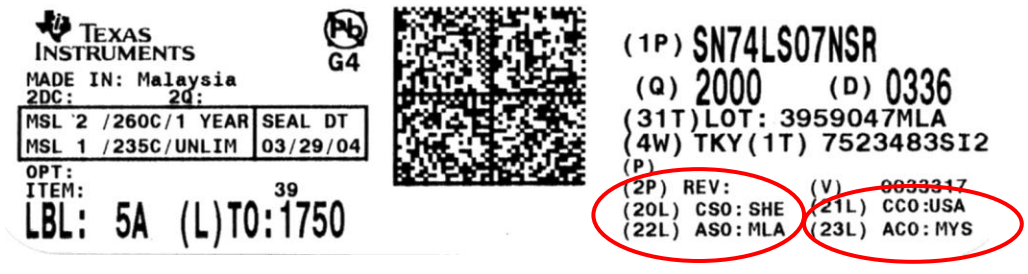
None

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
MAINEFAB	CUA	USA	South Portland
RFAB	**RFB**	**USA**	**Richardson**

Sample product shipping label (not actual product label)



Product Affected:

DRV8350HRTVR	DRV8353FSRTAR	DRV8353HRTAR	DRV8353SRTAR
DRV8353FHRTAR	DRV8353HMRTAT	DRV8353SMRTAT	

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: DRV8353HRTAR	QBS Reference: INA240A1EDRQ1	QBS Reference: INA240A2EDRQ1	QBS Reference: INA240A3EDRQ1	QBS Reference: DRV8353SRTAR	QBS Reference: DRV8353SRTAR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	1/77/0	1/77/0	1/77/0	1/77/0	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	-	1/77/0	1/77/0	1/77/0	3/231/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	1/77/0	-	-	-	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	-	3/231/0	-
HTSL	A6	High Temperature Storage Life	175C	1000 Hours	-	1/45/0	-	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	-	-	1/77/0
HTOL	B1	Life Test	150C	1000 Hours	-	1/77/0	1/77/0	1/77/0	-	-
ELFR	B2	Early Life Failure Rate	150C	48 Hours	-	1/800/0	1/800/0	1/800/0	-	-
ESD	E2	ESD CDM	-	1500 Volts	-	1/3/0	1/3/0	1/3/0	-	-
ESD	E2	ESD CDM	-	250 Volts	-	-	-	-	1/3/0	1/3/0

Type	#	Test Name	Condition	Duration	Qual Device: DRV8353HRTAR	QBS Reference: INA240A1EDRQ1	QBS Reference: INA240A2EDRQ1	QBS Reference: INA240A3EDRQ1	QBS Reference: DRV8353SRTAR	QBS Reference: DRV8353SRTAR
ESD	E2	ESD HBM	-	1000 Volts	-	-	-	-	1/3/0	1/3/0
ESD	E2	ESD HBM	-	2500 Volts	-	1/3/0	-	-	-	-
LU	E4	Latch-Up	Per JESD78	-	-	1/6/0	1/6/0	1/6/0	1/3/0	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	-	-	-	1/30/0	1/30/0
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	1/30/0	-	1/30/0	-	-

- QBS: Qual By Similarity
- Qual Device DRV8353HRTAR 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/

TI Qualification ID: R-CHG-2303-069

Qualification Results

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

Type	#	Test Name	Condition	Duration	Qual Device: DRV8350HRTVR	QBS Reference: INA240A1EDRQ1	QBS Reference: INA240A2EDRQ1	QBS Reference: INA240A3EDRQ1	QBS Reference: DRV8353HRTAR	QBS Reference: DRV8353SRTAR	QBS Reference: DRV8353SRTAR
HAST	A2	Biased HAST	130C/85%RH	96 Hours	-	1/77/0	1/77/0	1/77/0	-	1/77/0	-
UHAST	A3	Unbiased HAST	130C/85%RH	96 Hours	-	1/77/0	1/77/0	1/77/0	-	3/231/0	-
TC	A4	Temperature Cycle	-65C/150C	500 Cycles	-	-	-	-	1/77/0	3/231/0	-
HTSL	A6	High Temperature Storage Life	150C	1000 Hours	-	-	-	-	-	3/231/0	-
HTSL	A6	High Temperature Storage Life	175C	1000 Hours	-	1/45/0	-	-	-	-	-
HTOL	B1	Life Test	125C	1000 Hours	-	-	-	-	-	-	1/77/0
HTOL	B1	Life Test	150C	1000 Hours	-	1/77/0	1/77/0	1/77/0	-	-	-
ELFR	B2	Early Life Failure Rate	150C	48 Hours	-	1/800/0	1/800/0	1/800/0	-	-	-
ESD	E2	ESD CDM	-	1500 Volts	-	1/3/0	1/3/0	1/3/0	-	-	-
ESD	E2	ESD CDM	-	250 Volts	-	-	-	-	-	1/3/0	1/3/0
ESD	E2	ESD HBM	-	1000 Volts	-	-	-	-	-	1/3/0	1/3/0
ESD	E2	ESD HBM	-	2500 Volts	-	1/3/0	-	-	-	-	-

Type	#	Test Name	Condition	Duration	Qual Device: DRV8350HRTVR	QBS Reference: INA240A1EDRQ1	QBS Reference: INA240A2EDRQ1	QBS Reference: INA240A3EDRQ1	QBS Reference: DRV8353HRTAR	QBS Reference: DRV8353SRTAR	QBS Reference: DRV8353SRTAR
LU	E4	Latch-Up	Per JESD78	-	-	1/6/0	1/6/0	1/6/0	-	1/3/0	1/3/0
CHAR	E5	Electrical Characterization	Per Datasheet Parameters	-	1/30/0	-	-	-	1/30/0	1/30/0	1/30/0
CHAR	E5	Electrical Distributions	Cpk>1.67 Room, hot, and cold	-	-	1/30/0	-	1/30/0	-	-	-

- QBS: Qual By Similarity
- Qual Device DRV8350HRTVR is qualified at MSL2 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/

TI Qualification ID: R-CHG-2305-023

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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