




<b>PCN Number:</b>	20220303002.1	<b>PCN Date:</b>	March 04, 2022
<b>Title:</b>	Qualification of DMOS6 as an additional Fab site option for select LBC8 devices		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	Jun 4, 2022	<b>Estimated Sample Availability:</b>	Date provided at sample request.
<b>Change Type:</b>			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Mechanical Specification
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Packing/Shipping/Labeling
		<input type="checkbox"/>	Test Process
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change
<b>PCN Details</b>			
<b>Description of Change:</b>			
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.			
<b>Current Fab Site</b>			<b>Additional Fab Site</b>
<b>Current Fab Site</b>	<b>Process</b>	<b>Wafer Diameter</b>	<b>New Fab Site</b>
RFAB	LBC8	300mm	DMOS6
			<b>Process</b>
			LBC8
			<b>Wafer Diameter</b>
			300mm
Qual details are provided in the Qual Data Section.			
<b>Reason for Change:</b>			
Continuity of supply.			
<b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>			
None			
<b>Changes to product identification resulting from this PCN:</b>			
<b>Fab Site Information:</b>			
Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
RFAB	RFB	USA	Richardson
<b>DMOS6</b>	<b>DM6</b>	<b>USA</b>	<b>Dallas</b>
Sample product shipping label (not actual product label)			
  			
(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T) LOT: 3959047MLA (4W) TKY (1T) 7523483SI2 (P) (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO: USA (22L) ASO: MLA (23L) ACO: MYS			
<b>Product Affected:</b>			
BQ27426YZFR	BQ27426YZFT		

**Qualification Report**  
**Approve Date 02-Mar-2022**

**Qualification Results**

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

Type	Test Name / Condition	Duration	Qual Device: BQ27426YZFR	QBS Product / Package Reference: CD3258A0YFPR (RFAB/CLARK)	QBS Product / Package Reference: CD3258A1YFPR (RFAB/CLARK)	QBS Process Reference: CD3258A0 (DMOS6/CLARK)	QBS Process Reference: CD3258A1 (DMOS6/CLARK)
ED	Electrical Characterization	Per Datasheet Parameters	1/Pass	-	1/Pass	-	-
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	4/2000/0	-	4/2000/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	2/154/0	-	1/77/0	-
HBM	ESD - HBM	4000 V	1/3/0	-	-	-	-
CDM	ESD - CDM	1500 V	1/3/0	-	-	-	-
HTOL	Life Test, 140C	480 Hours	3/231/0	-	-	-	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	1/77/0	1/77/0	1/77/0	1/77/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0	-	-	-	-
LU	Latch-up, Ta=Room	(per JESD78)	1/6/0	-	-	-	-
LU	Latch-up, Ta=High	(per JESD78)	1/6/0	-	-	-	-
TC	Temperature Cycle, -55/125C	700 Cycles	-	-	2/154/0	-	1/77/0
TX	Temperature Cycle, -65/150C	500 Cycles	1/77/0	-	-	-	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	1/77/0	2/154/0	-	1/77/0	-

- QBS: Qual By Similarity

- Qual Device BQ27426YZFR 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

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