

<b>PCN Number:</b>	20180205000	<b>PCN Date:</b>	Feb 6, 2018
<b>Title:</b>	Qualification of DMOS6 for DDC2256AZZF		
<b>Customer Contact:</b>	<a href="#">PCN Manager</a>	<b>Dept:</b>	Quality Services
<b>Proposed 1<sup>st</sup> Ship Date:</b>	May 6, 2018	<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"/>	Electrical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input checked="" type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
		<input type="checkbox"/>	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 DDC2256AZZF device.

Current Sites			Additional Sites		
Current Fab Site	Process	Wafer Diameter	Additional Fab Site	Process	Wafer Diameter
DP1DM5	LBC8LV	200 mm	DMOS6	LBC8LV	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:

##### Current:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
DP1DM5	DM5	USA	Dallas

##### New:

Chip Site	Chip Site Origin Code (20L)	Chip Site Country Code (21L)	Chip Site City
<b>DMOS6</b>	<b>DM6</b>	<b>USA</b>	<b>Dallas</b>

Sample product shipping label (not actual product label)



MADE IN: Malaysia  
2DC: 20:

MSL 2 / 260C / 1 YEAR	SEAL DT
MSL 1 / 235C / UNLIM	03/29/04

OPT: 39  
ITEM: 39  
LBL: 5A (L)T0:1750



(1P) SN74LS07NSR  
(Q) 2000 (D) 0336  
(31T) LOT: 3959047MLA  
(4W) TKY (1T) 7523483SI2  
(P)  
(2P) REV: (V) 0033317  
(20L) CSO: SHP (21L) CCO: USA  
(22L) ASO: MLA (23L) ACO: MYS

**Product Affected:**

DDC2256AZZF

**Qualification Report****DDC2256 offload from DMOS5 to RFAB/DMOS6 (MFF)**

Approve Date 08-Jan-2018

**Product Attributes**

Attributes	Qual Device: DDC2256AZZF	QBS Product Reference: DDC2256AZZF	QBS Process Reference: TAS2552YFF	QBS Process Reference: TAS2553YFF
Assembly Site	AMKOR K4	AMOR K4	CLARK-AT	CLARK-AT
Package Family	NFBGA	NFBGA	DSBGA	DSBGA
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB / DMOS6, RFAB/DMOS6 (MFF)	DMOS5, DMOS5	RFAB/DMOS6 (MFF)	RFAB/DMOS6 (MFF)
Wafer Process	LBC8LV	LBC8LV	LBC8LV	LBC8LV

- QBS: Qual By Similarity

- Qual Device DDC2256AZZF is qualified at LEVEL3-260C

- Device DDC2256AZZF contains multiple dies.

**Qualification Results**

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

Type	Test Name / Condition	Duration	Qual Device: DDC2256AZZF	QBS Product Reference: DDC2256AZZF	QBS Process Reference: TAS2552YFF	QBS Process Reference: TAS2553YFF
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass	-	Pass
ELFR	Early Life Failure Rate, 125C	48 Hours	-	-	-	3/3000/0
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/231/0	-
HBM	ESD - HBM	4000 V	1/3/0	1/3/0	-	-
CDM	ESD - CDM	1500 V	1/3/0	1/3/0	-	3/9/0
HTOL	Life Test, 125C	1000 Hours	1/77/0	-	-	3/231/0
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/228/0	-
LU	Latch-up	(per JESD78)	1/6/0	1/6/0	-	3/18/0
SBS	Bump Shear	--	-	-	3/108/0	-
TC	Temperature Cycle, -55/125C	700 Cycles	1/77/0	-	3/231/0	-
UHAST	Unbiased HAST, 130C/85%RH	96 Hours	-	-	3/228/0	-
WBP	Bond Pull	Wires	1/76/0	-	-	-
WBS	Ball Bond Shear	Wires	1/76/0	-	-	-

- 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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