

PCN Number:	20151211001		PCN Date:	12/14/2015	
Title:	Quality TI Chengdu (CDAT) as an additional Assembly & Test site for the list of devices shown below				
Customer Contact:	PCN Manager	Dept:	Quality Services		
Proposed 1st Ship Date:	3/14/2016	Estimated Sample Availability:	Provided upon Request		
Change Type:					
<input checked="" type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process	<input type="checkbox"/>	Assembly Materials
<input 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 type="checkbox"/>	Wafer Fab Process
		<input type="checkbox"/>	Part number change		
PCN Details					
Description of Change:					
Texas Instruments is pleased to announce the qualification of TI Chengdu (CDAT) as an additional Assembly & Test site for the list of devices shown below. There are no device construction differences between the 2 sites.					
Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ.					
Reason for Change:					
Continuity of Supply					
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):					
None					
Anticipated impact on Material Declaration					
<input checked="" type="checkbox"/>	No Impact to the Material Declaration	<input type="checkbox"/>	Material Declarations or Product Content reports are driven from production data and will be available following the production release. Upon production release the revised reports can be obtained from the TI ECO website .		
Changes to product identification resulting from this PCN:					
Assembly Site	Assembly Site Origin (22L)	Assembly Country Code (21L)	Assembly City		
TI Clark	QAB	PHL	Angeles City		
JCET	JCE	CHN	Jiangyin		
TI Chengdu	CDA	CHN	Chengdu		
Sample product shipping label (not actual product label)					



MADE IN: Malaysia
2DC: 2Q:

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

OPT:
ITEM:

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: SHE (21L) CCO:USA
(22L) ASO: MLA (23L) ACO: MYS

Topside Device marking:

Assembly site code for QAB= I

Assembly site code for JCE= F

Assembly site code for CDA = 8

Product Affected

TS3A227ERVAR	TPD4E110DPWR	TPD4E6B06DPWR
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T1 Information
Selective Disclosure

Qualification Report

TS3A227ERVAR - 2nd Source A-T site (CDAT)
Approve Date 19-Oct-2015

Product Attributes

Attributes	Qual Device: TS3A227ERVAR	QBS Product Reference: TS3A227ERVAR	QBS Product Reference: TS3A227ERVAR	QBS Process Reference: TPS2543QRTE	QBS Package Reference: TPS53641RSBR
Assembly Site	CHENGDU AT	CLARK AT	CLARK AT (UV	CLARK-AT	CHENGDU AT
Package Family	VQFN	QFN	QFN	TQFN	WQFN
Flammability Rating	-	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	RFAB	RFAB	RFAB	RFAB
Wafer Process	LBC7	LBC7	LBC7	LBC7	LBC7

- QBS: Qual By Similarity
- Qual Device TS3A227ERVAR is qualified at 2

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TS3A227ERVAR	QBS Product Reference: TS3A227ERVAR	QBS Product Reference: TS3A227ERVAR	QBS Process Reference: TPS2543QRTE	QBS Package Reference: TPS53641RSBR
AC	Autoclave 121C	96 Hours	1/77/0	1/77/0	-	3/231/0	3/230/0
ED	Electrical Distributions (Cpk>1.67)	Room, hot, and cold test	-	-	-	3/90/0	-
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	Pass	-	-
ELFR	Early Life Failure Rate, 150C	24 Hours	-	-	-	3/2640/0	-
HAST	Biased HAST 130C/85%RH	96 Hours	1/77/0	-	-	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	-
HTOL	Life Test, 150C	408 Hours	-	-	-	3/231/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	1/77/0	-	-	-	-
HTSL	High Temp. Storage Bake, 175C	500 Hours	-	-	-	3/149/0	-
LU	Latch-up	(per JESD78)	-	-	1/6/0	1/6/0	-
PD	Physical Dimensions	--	Pass	Pass	-	Pass	Pass
SD	Surface Mount Solderability	Pb Free	1/22/0	2/44/0	-	2/30/0	-
SD	Surface Mount Solderability	Pb	1/22/0	-	-	-	-
TC	Temperature Cycle, -65/150C	500 Cycles	1/77/0	-	-	3/231/0	3/231/0
WBP	Bond Pull	Wires	1/76/0	1/76/0	-	-	-
WBS	Ball Bond Shear	Wires	1/76/0	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/900 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

Qualification Report

TPD4E6B06DPWR (JCET to CDAT) (new package for CDAT) Approve Date 09-Dec-2015

Product Attributes

Attributes	Qual Device: TPD4E6B06DPW	QBS Package Reference: TPD1E10B09DPYR
Assembly Site	CDAT	CHENGDU
Package Family	SON 0.8 X 0.8 MM	X2SON
Flammability Rating	-	UL 94 V-0
Wafer Fab Supplier	CFAB	CFAB
Wafer Process	VDIODE.BD	VDIODE

- QBS: Qual By Similarity
- Qual Device TPD4E6B06DPW is qualified at LEVEL1-260CG
- Device TPD4E6B06DPW contains multiple dies.

Qualification Results

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

Type	Test Name / Condition	Duration	Qual Device: TPD4E6B06DPW	QBS Package Reference: TPD1E10B09DPYR
AC	Autoclave 121C	96 Hours	3/231/0	3/231/0
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
HBM	ESD - HBM	2000 V	-	-
CDM	ESD - CDM	500 V	-	-
HTOL	Life Test, 150C	300 Hours	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	3/231/0	3/231/0
PD	Physical Dimensions	--	3/15/0	3/15/0
SD	Solderability (Post 8 Hour Steam)	Pb Free	3/66/0	-
SD	Surface Mount Solderability	Pb Free	-	3/66/0
TC	Temperature Cycle, -65/150C	500 Cycles	3/231/0	3/231/0

- 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/>

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com