PCN Num	ber:	201	7010	06000			Ρ	CN Date: Jan 10, 2017	
Title: HD3SS3415RUA Die Revision									
Customer Contact:			PC	N Manager		De	pt:	Ouality Services	
		A		Estimated Sam	ple		Date provided at		
Proposed 1 Ship Date:			Apr	11 10, 2017	Availability:			sample request.	
Change T	ype:			1					
Assen	nbly Site			Assembly P	rocess			Assembly Materials	
Desig	1		Electrical Specification			<u> </u>	Mechanical Specification		
Test S	lite		<u> </u>	Packing/Shi	pping/Labeling		<u> </u>	Test Process	
<u> </u>	Bump Site		<u> </u>	Wafer Bump	o Material		<u> </u>	Wafer Bump Process	
Wafer	Fab Site		Wafer Fab Materials				water Fad Process		
			Part number change						
D				PCN	Details				
Descriptio	on of Change:								
Design cha improveme common m switch net datasheet	Design changes were made to improve the power performance in the device. The power improvements are achieved through design optimization of bias circuits, charge pump and adaptive common mode voltage regulator. There is no change to the device functionality. The high speed switch network remained unchanged. The design changes do not affect the device's guaranteed datasheet specifications or electrical performance.								
Reason fo	r Change:		e pi			cum	ent	•	
Improved	power performa	ance							
Anticipate	ed impact on F	⁼ orm,	Fit	, Function, Q	uality or Reliabil	ity ((po	sitive / negative):	
None	None								
Changes t	o product ide	ntific	atio	n resulting	from this PCN:				
Die Rev designator for the affected devices will change as shown in the table and sample label below: Current New Die Rev [2P] Die Rev [2P] B C Sample product shipping label (not actual product label) TEXAS INSTRUMENTS 200: G4 201: MADE IN: Malaysia 2DC: G4 201: MSL '2 /260C/1 YEAR SEAL DT MSL '2 /260C/1 YEAR SEAL DT OPT: ITEM: G4 201: OPT: ITEM: 39 39 LBL: G4 5A (L) T0: 1750 G4 (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS									
Product A	ffected:								
HD3SS34	15RUAR	HD3	SS3	415RUAT					

Qualification Report HD3SS3415RUA with die rev C Approve Date 28-Dec-2016

Attributes	Qual Device: HD3SS3415RU A	QBS Product Reference: HD3SS3415RU A	QBS Process Reference: HD3SS3411TRWAQ 1	QBS Package Reference: SH6966ACC0RGCRG4_CU_WIR E
Assembly Site	CLARK-AT	CLARK-AT	CLARK-AT	CLARK-AT
Package Family	QFN	QFN	QFN	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	FFAB	FFAB	FFAB	MIHO8
Wafer Fab Process	1833BICOM3ZL	1833BICOM3ZL	1833BICOM3ZL	LBC7

- QBS: Qual By Similarity
- Qual Device HD3SS3415RUA is qualified at LEVEL2-260C
- Device HD3SS3415RUA contains multiple dies.

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

Туре	Test Name / Condition	Duration	Qual Device: HD3SS3415R UA	QBS Product Reference: HD3SS3415R UA	QBS Process Reference: HD3SS3411TRWA Q1	QBS Package Reference: SH6966ACC0RGC RG4
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0
CDM	ESD - CDM	1500 V	1/3/0	-	-	-
ED	Electrical Characteriza tion	Per Datasheet Parameter s	Pass	-	-	-
ELFR	Early Life Failure Rate, 140C	24 Hours	-	-	3/2400/0	-
HAST	Biased HAST, 130C/85%R H	96 Hours	-	-	3/231/0	3/231/0
HBM	ESD - HBM	4000 V	1/3/0	-	-	-
HTOL	Life Test, 125C	1000 Hours	-	-	-	3/321
HTOL	Life Test, 140C	480 Hours	-	-	3/231/0	-
HTSL	High Temp Storage Bake 150C	1000 Hours	-	-	2/90/0	-
HTSL	High Temp Storage Bake 170C	420 Hours	-	-	-	3/231/0
LU	Latch-up	(Per JESD78)	1/6/0	-	-	-

Туре	Test Name / Condition	Duration	Qual Device: HD3SS3415R UA	QBS Product Reference: HD3SS3415R UA	QBS Process Reference: HD3SS3411TRWA Q1	QBS Package Reference: SH6966ACC0RGC RG4
TC	Temperature Cycle, - 65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0
TS	Thermal Shock - 65/150C	500 Cycles	-	-	-	3/231/0
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

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

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
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