PCN Number:		20140826000A				F	PCN Date: 10/02/2014				
Title:	Options for select DRV2603 devices										
Customer Contact:		PCN Manager Pho		Phor	1e: +1(214)480-6037		7	Dept: Quality Services			
*Proposed 1 st Ship Da		te:	12/02/2014		014		Estimated Sample Availability:		Date Provided at Sample request		
Change T	vpe:	Availability.			Campie request						
	bly Site		Assembly Process			Assembly Materials					
Desigr				Eleo	ctrical S	Spec	cification		Mechanical Specification		
🛛 Test S							ing/Labeling			Test Process	
	Bump Site						laterial			Wafer Bump Process	
🛛 Wafer	Fab Site				fer Fab				Wafe	r Fab	Process
				Par	t numb						
					PC	N D	etails				
Descriptio	on of Change	:									
This device was previously qualified and communicated in PCN20130116001. The retracted device is highlighted in the Product Affected Section in bold font with a strikethrough. This change notification is to announce the addition of RFAB and TI Clark as additional Fab site and Assembly/Test site options for select DRV2603 devices. The affected devices are listed in the Product Affected Section. Fab Site:											
	ite/Process/W	afer [Diam	eter		Add	litional Site/Proce	ss/\	Nafer D	iame	ter
UMC-F8E	LBC8 Process	/200mm				RFAB/LBC8 Process/300mm					
Assembly Site: There are no material set differences between MLA and TI-Clark. Test coverage, insertions, conditions will remain consistent with current testing and verified with test MQ. 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 Ch		ip Site Code (20L)	Chip Country Code (21 L)	
UMC-F8E		CSO: U8E	JPN	
New Chip Site	Ch	ip Site Code (20L)	Chip Country Code (21 L)	
RFAB		CSO: RFB	ÚSA	
Assembly Site				
Current Assembly S	Site			
MLA			ASO: MYS	
MLA		Assembly Site Origin (22L)	ASO: MYS	
Clark-AT Sample Product Sh	nippi	Assembly Site Origin (22L) ng Label (not actual product	ASO: QAB label)	
Clark-AT	R SE/ 03	Assembly Site Origin (22L) ng Label (not actual product G4 AL DT /29/04 (2	ASO: QAB label) (P) SN74LS07NSR (Q) 2000 (D) 0336 31T) LOT: 3959047MLA W) TKY (1T) 7523483S	

Product Affected Devices							
DRV2603CRUNR DRV2603RUNR DRV2603RUNT DRV2603V1RUNR							

Qualification Report

New LBC8LV fab components in RFAB

Approved 09/17/2013

Attributes	Qual Device: DRV2603RUN	QBS Process: SH8350BCA0PAPG4_TIPI		
Assembly Site	CLARK-AT	PHI		
Package Family	QFN	TQFP		
Flammability Rating	UL 94 V-0	UL 94 V-0		
Wafer Fab Supplier	RFAB	RFAB		
Wafer Fab Process	LBC8LV	LBC8LV		

- QBS: Qual By Similarity - Qual Device DRV2603RUN is qualified at LEVEL2-260C

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

Туре	Test Name / Condition	Duration	Qual Device: DRV2603RUN	QBS Process: SH8350BCA0PAPG4_TIPI
HAST	Biased HAST, 130C/85%RH	96 Hours	-	3/231/0
AC	Autoclave 121C	96 Hours	-	3/231/0
тс	Temperature Cycle - 65/150C	500 Cycles	-	3/231/0
HTSL	High Temp Storage Bake 170C	420 Hours	-	3/231/0
HTOL	Life Test, 125C	1000 Hours	-	3/224/0
HTOL	Life Test, 140C	480 Hours	3/231/0	-
HBM	ESD - HBM	1000 V	3/9/0	3/15/0
CDM	ESD - CDM	250 V	3/9/0	3/15/0
LU	Latch-up	(per JESD78)	3/18/0	3/24/0
ED	Electrical Characterization	Per Datasheet Parameters	Pass	Pass

- 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

Qualification Report

B-Stage Epoxy Ablestik 8006NS Enterprise Qual for QFN/SON package in Clark for DRV2603RUNR

Attributes	Qual Device: DRV2603RUNR	Qual Device: TPS71745DSER
Assembly Site	CLARK AT	CLARK AT
Package Family	WQFN	WSON
Flammability Rating	UL 94 V-0	UL 94 V-0
Wafer Fab Supplier	RFAB	MIHO 8
Wafer Fab Process	LBC8LV	LBC7

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

Туре	Test Name / Condition	Duration	Qual Device: DRV2603RUNR	Qual Device: TPS71745DSER
HAST	Biased HAST, 130C/85%RH	96 Hours	-	2/153/0
AC	Autoclave 121C	96 Hours	3/231/0	-
TC	Temperature Cycle, -65/+150C	500 Cycles	3/231/0	-
HTSL	High Temp Storage Bake, 150C	1000 Hours	3/231/0	-
MQ	Manufacturability	(per mfg. Site specification)	Pass	-
MSL	Thermal Path Integrity	Level 2 @ 260C	1/12/0	-
MSL	Moisture Sensitivity Level	Level 1 @ 260C	-	-
VM	Visual Quality Reliability Inspection	Pre-Stress	3/6/0	-
VM	Visual Quality Reliability Inspection	Post Temp Cycle	3/6/0	-

- 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/200 Hours, and 155C/240 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

- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/ 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 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