PCN Number:		20150115000 F						PCN Date:		01/19/2015				
Title:	Package													
Customer Contact:		PCN Manager					De	pt:			Qua	Quality Services		
Propo Date:	sed 1 ^s	^t Ship	0	04/	19/2015	Estima	Estimated Sample Availab			ility:	Date	e provided upo Jest	n	
Chang	ie Typ	e:												
	Assemb		e	ΙП	Assembly	Process			\boxtimes	Assembly Materials				
=	Design				Electrical S		on				chanical			
	est Sit	e			Packing/S						t Proces			
	Vafer E		Site		Wafer Bun				Ī		fer Bum		cess	
	Vafer F				Wafer Fab						fer Fab I	•		
					Part numb	er change								
						PCN [etails	5						
Descri	iption	of Ch	ange	e:										
Assem	bly and	d test	site a	and N	d to annound Miho as an a differences	dditional fare noted	ab site 1			evice				
			Mou	ınt C	ompound	4207768 SID#435			135143					
		Curre	ent Sit	e/Pro	ocess/Wafer D	Diameter Additional Site/Process/Wafer Diameter					ameter			
								MIHO/LBC7X/200MM						
MQ.	Test coverage, insertions, conditions will remain consistent with current testing and verified with test													
Contin			·	Fit.	Form, Fun	ction. Ou	ality o	r Re	liabi	lity (nositiv	e / n	egative):	
None	patou			,	, ,		uncy o			,	(POOIGIE	<u> </u>		
Changes to product identification resulting from this PCN:														
Assembly Site								<u>, </u>		0.045				
TI Clark			Assembly Site Origin (22L)					O: QAB						
CARZ Assembly Site Origin (22L) ASO: CSZ								O: CSZ						
Fab S	Site													
RFAB						Assembly Site Origin (22L)			AS	O: RFB				
MIHO							Assembly Site Origin (22L) ASO: MH8							
-	Assembly site stigm (222)													

Sample product shipping label (not actual product label)



(1P) SN74LS07NSR (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483SI2

(2P) REV: (2P) REV: (V) 0033317 (20L) CSO: SHE (21L) CCO:USA (22L) ASO: MLA (23L) ACO: MYS

OPT: ITEM: 5A (L)T0:³⁹750

Topside Device marking:

Assembly site code for QAB=I

Assembly site code for CSZ=F

Product Affected

FX018	TPS51622ARSMT	TPS51622RSMT	TPS51631RSMT
TPS51622ARSMR	TPS51622RSMR	TPS51631RSMR	

Qualification Report

TPS51622 Qual for offload to CARZ Approved 12/23/2014

Product Attributes

Attributes	Qual Device: TPS51622RSM RFAB	Qual Device: TPS51622RSM MIHO	QBS Process: TPS62110RSA	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
Assembly Site	CARZ	CARZ	CAR	CARZ	CARZ	CARZ
Package Family	QFN	QFN	QFN	QFN	SON	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	RFAB	MIHO8	MIHO8	MIHO8	RFAB	RFAB
Wafer Fab Process	LBC7	LBC7	LBC7	LBC7	LBC7	LBC7
ODC: Out Dis Classification						

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

Туре	Test Name / Condition	Duration	Qual Device: TPS51622RSM RFAB	Qual Device: TPS51622RSM MIHO	QBS Process: TPS62110RSA	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
HAST	Biased HAST, 130C/85%RH	96 Hours			3/231/0	3/230/0	-	1/79/0
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0	3/231/0	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	3/231/0	-
TS	Thermal Shock, -65/150C	500 Cycles	-	-	3/231/0	-	-	-
HTOL	Life Test 125C	1000 Hours	-	-	-	-	-	-
HTOL	Life Test, 135C	635 Hours	-	-	-	-	-	-
HTOL	Life Test, 140C	480 Hours	-	-	3/390/0	-	-	-
HTOL	Life Test, 150C	300 Hours	-	-	-	-	3/231/0	-
ELFR	Early Life Failure Rate, 140C	48 Hours	-	-	3/1881/0	-	-	-
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0	-	-	-	-
WBP	Bond Pull	Wires	1/76/0	1/76/0	-	-	-	-
HBM	ESD - HBM	2500 V	-	1/3/0	-	-	-	-
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-	-
LU	Latch-up	(per JESD78)	-	1/6/0	3/15/0	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	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 HTOL options based on an activation energy of 0.7eV: 156C/1k Hours, and 170C/420 Hours, and 155C/240 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 T1's external Web site: http://www.ti.com/ Green/Pb-free Status: Qualified Pb-Free(SMT) and Green								

QBS: Qual By Similarity
 Qual Devices qualified at LEVEL2-260C: TPS51622RSM RFAB, TPS51622RSM MIHO

Qualification Report

TPS51631RSM Qual for offload to CARZ Approved 12/23/2014

Product Attributes

Attributes	Qual Device: TPS51631RSM (1)	QBS Product: TPS51622RSM	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
Assembly Site	CARZ	CARZ	CARZ	CARZ	CARZ
Package Family	QFN	QFN	QFN	SON	QFN
Flammability Rating	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0	UL 94 V-0
Wafer Fab Site	RFAB	MIHO8	MIHO8	RFAB	RFAB
Wafer Fab Process	LBC7	LBC7	LBC7	LBC7	LBC7

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

+	Data Displayed as: Number of lots/Total sample size / Total failed						
Туре	Test Name / Condition	Duration	Qual Device: TPS51631RSM (1)	QBS Product: TPS51622RSM	QBS Package: TPS53211RGTR	QBS Package: TPS51217DSCR	QBS Package: TPS51220RHBR
HAST	Biased HAST, 130C/85%RH	96 Hours	-	-	3/230/0	-	1/77/0
AC	Autoclave 121C	96 Hours	-	1/77/0	3/231/0	3/231/0	-
TC	Temperature Cycle, -65/150C	500 Cycles	-	1/77/0	3/231/0	3/231/0	-
HTSL	High Temp. Storage Bake, 150C	1000 Hours	-	-	-	-	-
HTSL	High Temp. Storage Bake, 170C	420 Hours	-	-	3/231/0	3/231/0	-
HTOL	Life Test 125C	1000 Hours	-	-	-	-	-
HTOL	Life Test, 135C	635 Hours	-	-	-	-	-
HTOL	Life Test, 150C	168 Hours	-	-	-	3/231/0	-
HTOL	Life Test, 150C	300 Hours	-	-	-	3/231/0	-
WBS	Ball Bond Shear	Wires	1/76/0	1/76/0	-	-	-
WBP	Bond Pull	Wires	1/76/0	1/76/0	-	-	-
HBM	ESD - HBM	2500 V	-	1/3/0	-	-	-
CDM	ESD - CDM	1500 V	-	1/3/0	-	-	-
LU	Latch-up	(per JESD78)	-	1/6/0	-	-	-
ED	Electrical Characterization	Per Datasheet Parameters	-	Pass	-	-	-
- The formal of	nditioning was performed for Autocl. Illowing are equivalent HTOL option Illowing are equivalent HTSL option Illowing are equivalent Temp Cyde: and Environmental data is available the free Status: dp-Free(SMT) and Green TPS51631RSM uses the same silion	s based on an activation ener s based on an activation energ options per JESD47: -55C/12: at TI's external Website: http	gy of 0.7eV: 125C/1k Hot gy of 0.7eV: 150C/1k Hot 5C/700 Cycles and -65C/ //www.ti.com/	urs, 140C/480 Hours, 150 urs, and 170C/420 Hours 1150C/500 Cycles		40 Hours	

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

⁻ QBS: Qual By Similarity - Qual Device TPS51631RSM is qualified at LEVEL2-260C