PCN Number: 202303270			005.	. 1				P	CN Date:	March 30), 2023	
Title: Qualify additional Assembly site for select SOT-23-THIN Package devices												
Customer Contact: PCN Manager						Dept:	Q	uality Servic	ces			
Proposed 1 st Ship Date: June 28, 2			202	23					e requests pted until:	Apr 28,	2023	
*Sa	mple	requests rece	eived after (٩pr.	28	, 2023) will	not	be supp	ort	ed.		
Cha	nge	Туре:										
\boxtimes	Asse	mbly Site			De	esign				Wafer Bu	ımp Matei	rial
\boxtimes	Asse	mbly Process			Da	ata Sheet				Wafer Bu	ımp Proce	!SS
\boxtimes	Asse	mbly Material	S		Pa	art number c	ha	nge		Wafer Fa	b Site	
	Mec	hanical Specif	ication		Te	est Site				Wafer Fa	b Materia	ls
\boxtimes	Pack	ing/Shipping/	Labeling		Te	est Process				Wafer Fa	b Process	
						PCN Deta	ils	5				
Des	cript	ion of Chang	ie:					_				
Tex dev	as Ins ices li	struments Inc isted below in sites are as f	orporated is the product									
	,	1 Device:	onows.									
					S	OT-23-THI	N					
	As	sembly Sites		PH	ΗI, Ι	HNA, JCETC8	3,]	CETJY, L	JTL	2, TIEMA, C	DAT	
	Le	ead Finish		_	NiPdAu, Matte Sn							
Mount Compound		400180 400194 4207123 1120999A2 4223872										
Mold Compound		4226215 450207 450423 4222198 120800005407 8097131										
	Вс	ond wire type			л, C							
Bond wire diameter		25	5.4	UM (0.8 MIL UM (1.0 MIL M (1.3 MIL)	-							
Gro	up 2	Device:			60							1
	_	and a male less Cité		SOT-23-THIN -FC PHI, HNA, JCETC8, JCETJY, UTL2, TIEMA, CDAT								
Assembly Sites		_				CEIJY, C	JI L	Z, TIEMA, C	.DA I	-		
	LE	ead Finish				Au, Matte Sn						-
Mold Compound			45 42 12	208								
Rea	son	for Change:										
	Continuity of Supply											
Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):												

None

Impact on Environmental Ratings

Checked boxes indicate the status of environmental ratings following implementation of this change. If below boxes are checked, there are no changes to the associated environmental ratings.

RoHS	REACH	Green Status	IEC 62474
☑ No Change	☑ No Change	☑ No Change	⊠ No Change

Changes to product identification resulting from this PCN:

Assembly Site					
UTAC	Assembly Site Origin (22L)	ASO: NS2			
Hana	Assembly Site Origin (22L)	ASO: HNT			
TI Philippines	Assembly Site Origin (22L)	ASO: PHI			
JCETJY	Assembly Site Origin (22L)	ASO: JCE			
JCETJ8	Assembly Site Origin (22L)	ASO: JC8			
TI Chengdu	Assembly Site Origin (22L)	ASO: CDA			
TI Melaka	Assembly Site Origin (22L)	ASO: CU6			

Sample product shipping label (not actual product label)





(1P) \$N74L\$07N\$R (Q) 2000 (D) 0336 (31T)LOT: 3959047MLA (4W) TKY(1T) 7523483S12 (P) REV: (V) 0033317

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

Group 1 Product Affected:

TLV70012DDCR TLV70032DDCT TPS79915DDCR TPS79933DDCT TLV70012DDCT TLV70033DDCR TPS79915DDCT TPS79942DDCR TLV70013DDCR TLV70033DDCT TPS799185DDCR TPS79942DDCT TLV70013DDCT TLV70036DDCR TPS799185DDCT REG71050DDCR TLV70015DDCR TLV70036DDCT TPS79918DDCR REG71050DDCT TLV70015DDCT TPS62240DDCR TPS79918DDCT REG71055DDCR TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TLV70013DDCR TLV70033DDCT TPS799185DDCR TPS79942DDCT TLV70013DDCT TLV70036DDCR TPS799185DDCT REG71050DDCR TLV70015DDCR TLV70036DDCT TPS79918DDCR REG71050DDCT TLV70015DDCT TPS62240DDCR TPS79918DDCT REG71055DDCR TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TLV70013DDCT TLV70036DDCR TPS799185DDCT REG71050DDCR TLV70015DDCR TLV70036DDCT TPS79918DDCR REG71050DDCT TLV70015DDCT TPS62240DDCR TPS79918DDCT REG71055DDCR TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TLV70015DDCR TLV70036DDCT TPS79918DDCR REG71050DDCT TLV70015DDCT TPS62240DDCR TPS79918DDCT REG71055DDCR TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TLV70015DDCT TPS62240DDCR TPS79918DDCT REG71055DDCR TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TLV70018DDCR TPS62260DDCR TPS79925DDCR REG71055DDCT
TIV(703DDCD
TLV70018DDCT TPS62260DDCT TPS79925DDCT TLV6703DDCR
TLV70019DDCR TPS62561DDCR TPS79927DDCR TPS3700DDCR
TLV70019DDCT TPS73401DDCR TPS79927DDCT TPS3700DDCR2
TLV70022DDCR TPS73401DDCT TPS799285DDCR TPS3700DDCT
TLV70022DDCT TPS73433DDCR TPS799285DDCT TPS3701DDCR
TLV70025DDCR TPS73433DDCT TPS79928DDCR TPS3701DDCT
TLV70025DDCT TPS79901DDCR TPS79928DDCT TPS3702CX33DDCR
TLV70028DDCR TPS79901DDCT TPS79930DDCR TPS3710DDCR
TLV70028DDCT TPS79912DDCR TPS79930DDCT TLV9062IDDFR
TLV70030DDCR TPS79912DDCT TPS799315DDCR TLV9352IDDFR
TLV70030DDCT TPS79913DDCR TPS799315DDCT
TLV70032DDCR TPS79913DDCT TPS79933DDCR

Group 2 Product Affected:

SN1804026DDFR	TPS562219ADDFR	TPS563210DDFR	TPS565201DDCR
THVD8000DDFR	TPS562219ADDFT	TPS563219ADDFR	TPS565201DDCT
THVD8010DDFR	TPS562219DDFR	TPS563219DDFR	TPS565208DDCR
TPS562210ADDFR	TPS563210ADDFR	SN1706035DDCR	TPS565208DDCT
TPS562210DDFR	TPS563210ADDFT	SN1706035DDCT	

Qualification Report (SOT-23-THN)

Qualification Results

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

Street Duration PH CDAT				
	Stress Test	Duration	TPS563249DDC	TPS563249DDC
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0
HAST/T HB	Biased HAST 130C/85% RH Or Biased HAST 110C/85% RH Or Temperature Humidity Bias, 85C/85% RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0
UHA ST/ AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steamage or 155C Dry Bake	3/66/0 (TPS563201DDC)	3/66/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	JCETC8 TPS563208DDC	JCETJY TLV62569PDDC
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0
HAST/T HB	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0	3/231/0

	Stress Test	Duration	JCETC8 TPS563208DDC	JCETJY TLV62569PDDC
UHA ST/ AC	Unbiased HAST, 130C/85%RH Or Autoclave 121C	96 hours	3/231/0	3/231/0
SD	Solderability	8 Hour Steamage or 155C Dry Bake	3/66/0	3/66/0 (TPS27081A DDC)
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	UTL LM73CxQDDCRQ1	TIEM TPL5010QDDCRQ1	HNA LV2862XLV DDC
TC	Temperature Cycling -65/150C Or Temperature Cycling -55/125C	500 Cycles Or 700 Cycles	3/231/0	3/231/0	3/231/0
HAST/T HB	Biased HAST 130C/85%RH Or Biased HAST 110C/85%RH Or Temperature Humidity Bias, 85C/85%RH	96 hours Or 264 hours Or 1000 hours	3/231/0	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 150C Or High Temp. Storage Bake 170C	1000 hours Or 420 hours	3/231/0 (a)	3/231/0	3/135/0 (b)
UHA ST /AC	Unbiased HAST, 130 C/85% RH Or Autoclave 121 C	96 hours	3/231/0	3/231/0	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	2/44/0 (TPS62242QDDC)	2/44/0 (LM2734XQMK)	3/66/0 (b)
MQ	Manufacturability	-	Pass	Pass	Pass

All qualification devices in the tables are qualified at L1-260C MSL rating.

Note a – Data collected on TPS3702EX33QDDCRQ1 and LM73CxQDDCRQ1

Note b - Data collected on LMP8640QMKX-T/NOPB

- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, and HTSL, as applicable
- The following are equivalent HTSL options based on activation energy of 0.7eV: 150C/1k Hours, and 170C/420 Hours

Quality and Environmental data is available at Tl's external Web site: http://www.ti.com/Green/Pb-free Status: Qualified Pb-Free(SMT) and Green

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