PCN	Number:	201	20140701001					F	CN Dat	07/08/2014	
Title:	Title:Qualification of DMOS6, TI Clark and TI Malaysia as additional Fab site and Assembly/Test site options for select devices										
Customer Contact: PCN Manager Phone: +1(214)480-6037 Dept: Quality Servic								ality Services			
*Pro	posed 1 st Ship D	ate:	10/	0/08/2014 Estimated Sample Availability:			Date Provided at Sample request				
Chan	Change Type:										
Assembly Site			Assembly Process			Assembly Materials					
Design				Electrical Specification			Mechanical Specification			I Specification	
T	est Site		Packing/Shipping/Labeling					Test Process			SS
Wafer Bump Site Wafer				Wafer Bump Material			Wafer Bump Process				
Wafer Fab Site				Wafer Fab Materials			Wafer Fab Process				
	Part number change										
	PCN Details										

Description of Change:

This change notification is to announce the addition of DMOS6, TI Clark and TI Malaysia as additional Fab site and Assembly/Test site options for select devices. Material differences as follows.

Group 1 Devices: Fab Site & Assembly Site change Fab Site

SS		Additional Site/Process			
		Additional Site/Process			
cess	DMOS6/C027A Process				
NSE		TI-Clark			
Au (1.0mil)		Cu (0.8mil)			
PZ0031		4207123			
	NSE Nu (1.0mil)	NSE Au (1.0mil)			

Group 2 Devices: Assembly & Test Site change

- No material set differences between 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 Form, Fit, Function, Quality or Reliability (positive / negative): None

Changes to product identification resulting from this PCN:

Group 1 Devices: Fab Site	ab Site & Assemb	ly Site cha	nge				
	Current Chip Site Chip Site Code (20L)				e (21 L)		
UMC-F12	CSO: F		Chip Country Code (21 L) USA				
New Chip Site	Chip Site Code (2		Chir	Country Cod	e (211)		
DMOS6	CSO: D		Cinp	USA	0 (21 2)		
Assembly Site				00/1			
Current Assembly S	te						
NSE	Assembly S	ite Origin (2	2L)	ASO: I	NSE		
Clark-AT	Assembly S						
Group 2 Devices: A	ssembly & Test S	ite change					
Current Assembly S	te						
TI Mexico	Assembly S			ASO: N			
TI Malaysia	Assembly S	ite Origin (2	2L)	ASO: I	MLA		
Sample Product Sh	ipping Label (not	actual prod	luct labe	el)			
	03/29/04 39 0:1750 DES: es: NSE = J, TI CL es: MEX = M, MLA Affected Devices	= K	(31T (4W) (2P) (20L) (22L)	CSO: SHE (2 ASO: MLA (2)	9047MLA 523483SI) 0033317 1L) CCO:USA 3L) ACO:MYS		
SN75DP130DSRGZR	SN75DP130DSRGZT	SN75DP13	OSSRGZ	R SN75DP13	OSSRGZT		
Group 2 : Product A	ffected Devices						
SN65HVD3082EDR	UCC27324DR	UCC	27424	DR			
	Qualificati	on Data:	Grou	1 Devices	S		
This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.							
	Qual Vehicle : S	N75DP130	DSRGZ	R (MSL 3-26	50C)		
	Packa	ge Constru	ction [Details	-		
Assembly		_		ld Compound:	4208625		
# Pins-Designator, Fa		1		nt Compound:	4207123		
		·	nou			Cu	
Leadframe (Finish, B	ase): NiPdAu			Bond Wire:	0.80 Mil Dia	., Cu	

Qualification: Plan	🛛 Test Res	ults						
Reliability Test		Con	ditions	Sam	Sample Size / Fail			
		Con		Lot 1	Lot 2	Lot3		
Electrical Characterization		-		Pass	-	-		
**Temp Cycle, -65C/150C		500	Cycles	77/0	77/0	77/0		
**High Temp Storage Bake		1700	C (420 Hrs)	77/0	77/0	77/0		
**Biased HAST		1300	C/85%RH (96 Hrs)	77/0	77/0	77/0		
**Unbiased HAST			C/85%RH (96 Hrs)	77/0	77/0	77/0		
**Life Test		1250	C (1000 Hrs)	77/0	77/0	77/0		
**Autoclave		121	C, 2 atm (96 Hrs)	79/0	80/0	80/0		
ESD - HBM		1000	0V	3/0	3/0	3/0		
ESD - CDM		250	V	3/0	3/0	3/0		
Early Life Failure Rate		1250	C (48 Hrs)	612/0	620/0	620/0		
Moisture Sensitivity		L3-2	260C	14/0	-	-		
Manufacturability Qualificat	tion (MQ)	(per	mfg. Site specification)	Pass	Pass	Pass		
**- Preconditioning sequen	ice: Level 3-260)C.						
Qualification Data: Group 2 Devices								
This qualification has been specifically developed for the validation of this change. The qualification data								
validates that the proposed change meets the applicable released technical specifications.								
Qual Vehicle 1: SN65HVD3082EDR (MSL 1-260C)								
Package Construction Details								
Assembly Site: TI Malaysia			Mold Compound:	421188	0			
# Pins-Designator, Family:	8-D, SOIC		Mount Compound:	4042500				
Leadframe (Finish, Base):	NiPdAu		Bond Wire:	0.95 Mil Dia., Cu				
Qualification: Plan Test Results								
Reliability Test		Con	ditions	San	nple Size /	' Fail		
**Temp Cycle, -65C/150C		500	Cycles	80/0				
Manufacturability Qualificat	tion (MQ)	(per mfg. Site specification) Pass						
**- Preconditioning sequen			<u> </u>					
Q	ual Vehicle 2:	UCC	27424DR (MSL 1-260	C)				
	Package	e Con	struction Details					
Assembly Site:	TI Malaysia	Mold Compound:		4211880				
# Pins-Designator, Family:	8-D, SOIC		Mount Compound:	4042500				
Leadframe (Finish, Base): NiPdAu			Bond Wire:		0.95 Mil Dia., Cu			
Qualification: Plan	🛛 Test Res	ults						
Reliability Test		Con	ditions	San	Sample Size / Fail			
Manufacturability Qualificat		+		Pass				

Q	ual Vehicle 3:	UCC	27324DR (MSL 1-2600	2)					
	Package	e Con	struction Details						
Assembly Site: TI Malaysia			Mold Compound:	4211880					
# Pins-Designator, Family: 8-D, SOIC			Mount Compound:	4042500					
Leadframe (Finish, Base):	NiPdAu		Bond Wire:	0.95 Mil	Dia., Cu				
Qualification: 🗌 Plan	Test Res	ults		_	,				
Reliability Test		Con	ditions	San	nple Size /	' Fail			
Manufacturability Qualificat	ion (MO)	(per	mfg. Site specification)		Pass				
Reference Qualification Data (Group 2 Devices)									
This qualification has been spe validates that the proposed ch	ecifically develope ange meets the a	ed for applica	the validation of this change able released technical spec	e. The quifications.		lata			
Q	ual Vehicle 1:	OPA2	2330AIDR (MSL 2-260	C)					
	Package	e Con	struction Details						
Assembly Site:	TI Malaysia		Mold Compound:	421188	0				
# Pins-Designator, Family:	8-D, SOIC		Mount Compound:	404250	0				
Leadframe (Finish, Base):	NiPdAu		Bond Wire:	0.96 Mil	Dia., Cu				
Qualification: 🗌 Plan	🛛 Test Res	ults		•					
Reliability Test		Con	ditions	Sample Size / Fail					
•				Lot 1	Lot 2	Lot3			
**Temp Cycle, -65C/150C		500 Cycles		77/0	77/0	77/0			
**High Temp Storage Bake			C (420 Hrs)	77/0	77/0	77/0			
**Autoclave			C, 2 atm (96 Hrs)	77/0	77/0	77/0			
Moisture Sensitivity			260C	12/0	12/0	12/0			
Manufacturability Qualificat			mfg. Site specification)	Pass	Pass	Pass			
	**- Preconditioning sequence: Level 2-260C.								
	-		X232DR (MSL 1-260C)						
	Package	e Con	struction Details	1					
Assembly Site:	TI Malaysia	Mold Compound:		4211880					
# Pins-Designator, Family:	16-D, SOIC	Mount Compound:		4042500					
Leadframe (Finish, Base):	NiPdAu		Bond Wire: 0.96 Mil Dia., Cu						
Qualification: 🗌 Plan	🛛 Test Res	ults							
Reliability Test		Conditions			nple Size /				
•				Lot 1 Pass	Lot 2	Lot3			
Electrical Characterization		-		77/0	- 77/0	- 77/0			
**Temp Cycle, -65C/150C **High Temp Storage Bake		500 Cycles		77/0	77/0	77/0			
**Autoclave		170C (420 Hrs) 121C, 2 atm (96 Hrs)		77/0	77/0	77/0			
**Biased HAST		130C/85%RH (96 Hrs)		77/0	77/0	77/0			
**Life Test		150C (300 Hrs)		77/0	77/0	77/0			
Flammability		(UL 94V-0)		5/0	5/0	5/0			
Flammability			2 695-2-2)	5/0	5/0	5/0			
Flammability			·1694)	5/0	5/0	5/0			
X-ray			side only)	5/0	5/0	5/0			
Moisture Sensitivity			260C	12/0	12/0	12/0			
Manufacturability Qualificat	tion (MQ)		mfg. Site specification)	Pass	Pass	Pass			
**- Preconditioning sequen	ice: Level 1-260		, , , , , , , , , , , , , , , , ,						

Qual Vehicle 3: TS12A4517DR (MSL 1-260C)								
Package Construction Details								
Assembly Site:	Assembly Site: TI Malaysia		Mold Compound:		4211880			
# Pins-Designator, Family:	8-D, SOIC		Mount Compound:	4042500				
Leadframe (Finish, Base):	NiPdAu		Bond Wire:	0.96 Mil Dia., Cu				
Qualification: 🗌 Plan	🛛 Test Res	ults						
Reliability Test		Con	ditions	San	nple Size /	' Fail		
Reliability Test		Con	ultions	Lot 1	Lot 2	Lot3		
**Temp Cycle, -65C/150C		500	Cycles	77/0	77/0	77/0		
**High Temp Storage Bake		1700	C (420 Hrs)	77/0	77/0	77/0		
**Autoclave		121	C, 2 atm (96 Hrs)	77/0	77/0	77/0		
Solderability		Pb Free		22/0	22/0	22/0		
Moisture Sensitivity		L1-260C		12/0	12/0	12/0		
Manufacturability Qualification (MQ)		(per mfg. Site specification)		Pass	Pass	Pass		
**- Preconditioning sequence: Level 1-260C.								
Qual Vehicle 4: SN74LVC86ADR (MSL 1-260C)								
Package Construction Details								
Assembly Site: TI Malaysia			Mold Compound:	4211880				
# Pins-Designator, Family:	14-D, SOIC	Mount Compound:		4042500				
Leadframe (Finish, Base):	NiPdAu		Bond Wire: 0.96 Mil Dia., Cu					
Qualification: 🗌 Plan	🛛 Test Res	ults						
Reliability Test		Con	Conditions		Sample Size / Fail			
Reliability Test			Conditions		Lot 2	Lot3		
**Temp Cycle, -65C/150C		500 Cycles		77/0	77/0	77/0		
**Autoclave		121C, 2 atm (96 Hrs)		77/0	77/0	77/0		
Moisture Sensitivity			L1-260C		12/0	12/0		
Manufacturability Qualification (MQ)			(per mfg. Site specification) Pass Pass F			Pass		
**- Preconditioning sequence: Level 1-260C.								

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
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