PCN Number:		20120208003A		PCN	Date:	Nov 12, 2018	
Title	e: Qualificatio	KOR as Additional A	ssembly Si	te fo	r 8-DDA	Package Devices	
Customer Contact:		PCN Manager		Dept:	<b>Dept:</b> Quality		Services
Cha	inge Type:						
Assembly Site			Assembly Process			Asse	embly Materials
☐ Design ☐ I		Electrical Specification			Mecl	hanical Specification	
☐ Test Site ☐ Packing/Shipping/Labeling ☐ Test Process				Process			
☐ Wafer Bump Site ☐ Wafer Bump Material ☐ Wafer Bump Process			er Bump Process				
	☐ Wafer Fab Site ☐ Wafer Fab Materials ☐ Wafer Fab Process			er Fab Process			
PCN Details							

### **Description of Change:**

Revision A is to remove select devices in the Product Affected Section (in bold characters with strikethrough) and highlighted in yellow. These devices were inadvertently added and not affected by this change.

Qualification of AMKOR AP1 (AKR) as Additional Assembly Site to ASE Shanghai (ASH) for 8-DDA package devices. Assembly differences are shown below:

	ASESH (ASH)	AMKOR AP1 (AKR)
LeadFrame	LF1000002	101370895
LF Finish	NiPdAuAg	NiPdAu
Mount compound	EY1000063	101306338
Mold compound	EN2000509	101323396

#### **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:

#### Sample Product Shipping Label (not actual product label)

Assembly Site

ASE Shanghai	Assembly Site Origin (22L)	ASO: ASH
Amkor (AP1)	Assembly Site Origin (22L)	ASO: AKR

#### Sample product shipping label to show code location only - not actual product label )





(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

# Device Marking:

| 54327 | TI YMZ | LLLL**S** <u>G4</u> | - PIN 1 STRIP

TI = TI LETTERS

YM = YEAR MONTH DATE CODE Z = SECONDARY CODE FOR AP1

LLLL = ASSEMBLY LOT CODE

**S** = ASSEMBLY SITE CODE

<u>G4</u> = JEDEC Pb-Free/Green terminal finish 'G4' preplated (NiPdAu)

Assembly site code for ASE Shanghai = A Assembly Site Code for Amkor AP1 = 4

Product Affected:						
HPA01069DDAR	SN1101003DDAR	TPS54327DDAR	TPS54329DDAR			
SN1101002DDA	TPS54227DDA	TPS54328DDA	TPS54329EDDA			
SN1101002DDAR	TPS54227DDAR	TPS54328DDAR	TPS54329EDDAR			
SN1101003DDA	TPS54327DDA	TPS54329DDA				

# Qualification Data Approved 11/10/2011

This qualification has been developed for the validation of this change. The qualification data will validate that the proposed change meets the applicable released technical specifications.

### Qual Vehicle: TPS54327DDA (MSL2-260C)

# Package Construction Details

	i deliage construction because					
Assembly Site:		AMK P1	Mold Compound:	101323396		
	# Pins-Designator, Family:	8-DDA, HSOP	Mount Compound:	101306338		
	Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wire (Mils):	2.0 mil, Cu		

Reliability Test	Conditions	Sample Size / Fail			
Reliability Test	Conditions	Lot#1	Lot#2	Lot#3	
Electrical Characterization		30/0	30/0	30/0	
**Biased Temp. Humidity	85C/85%RH (1000 Hrs)	26/0	26/0	26/0	
**Autoclave 121C	121C, 2 atm (96 Hrs)	77/0	77/0	77/0	
**T/C -65C/150C	-65C/+150C (500 Cyc)	77/0	77/0	77/0	
Bond Pull	76 Wire, 3 units min	76/0	76/0	76/0	
Manufacturability (Assembly)	(per mfg. Site specification)	Pass	-	-	
X-ray	(top side only)	5/0	5/0	5/0	
Moisture Sensitivity	(level 2 @ 260C +5/-0C)	12/0	12/0	12/0	
Notes: ** Tests require preconditioning sequence: MSL2-260C					

Qualification Plan							
This qualification has been develop	This qualification has been developed for the validation of this change. The qualification data						
will validate that the proposed char	nge meets the	applicable releas	sed techn	iical sp	ecifications.		
Qual Vehic	le #1: TPS542	227DDA (MSL2	2-260C)				
Pa	ckage Constr	uction Details					
Assembly Site:	AMK P1	Mold Co	mpound:	101	.323396		
# Pins-Designator, Family:	8-DDA, HSOP	Mount Co	mpound:	101	.306338		
Leadframe (Finish, Base):	NiPdAu, Cu	Bond Wi	re (Mils):	2.0	mil, Cu		
Qualification Schedule:	Start:	02/2012	End:	C	3/2012		
Qualification: 🛛 Plan 🔲 Te	est Results						
Reliability Test	Conditions	3		Sam	ple Size / Fa	ail	
Manufacturability (Assembly) (p	Manufacturability (Assembly) (per mfg. Site specification) Pass						
Yield Evaluation (per mfg. Site specification) Pass							
Notes: ** Tests require preconditioning sequence: MSL2-260C							
Qual Vehicle #2: TPS54329DDA (MSL2-260C)							
Package Construction Details							
Assembly Site:	AMK P1	Mold Co	mpound:	101	.323396		
# Pins-Designator, Family:	8-DDA, HSOP	Mount Co	mpound:	101	.306338		
Leadframe (Finish, Base): NiPdAu, Cu Bond Wire (Mils): 2.0 mil, Cu							
Qualification Schedule: Start: 02/2012 End: 03/2012							
Qualification:  Plan Test Results							
Reliability Test Conditions Sample Size / Fail					ail		
Manufacturability (Assembly)	(per mfg. S	fg. Site specification)		Pass			
Yield Evaluation (per mfg. Site specification) Pass							
Notes: ** Tests require preconditioning sequence: MSL2-260C							

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
Europe	PCNEuropeContact@list.ti.com
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com