



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN20210915000.1E
Qualify additional Assembly sites for select SOT devices
Change Notification / Sample Request

Date: January 08, 2025

Dear Customer:

The purpose of **Revision E** is to retract devices which were included in error. We apologize for any inconvenience this may have caused.

This is an announcement of a change to a device that is currently offered by Texas Instruments. The details of this change are on the following pages.

Texas Instruments requires acknowledgement of receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance and approval of this change. If samples or additional data are required, requests must be received within **30 days** of this notification.

The changes discussed within this PCN will not take effect any earlier than the proposed first ship date on Page 3 of this notification, unless customer agreement has been reached on an earlier implementation of the change.

This notice does not change the end-of-life status of any product. Should product affected be on a previously issued product withdrawal/discontinuance notice, this notification does not extend the life of that product or change the life time buy offering/discontinuance plan.

For questions regarding this notice or to provide acknowledgement of this PCN, you may contact your local Field Sales Representative or the change management team.

For sample requests or sample related questions, contact your local Field Sales Representative.

Sincerely,

Change Management Team
SC Business Services

20210915000.1E
Attachment: 1

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LM7321MF/NOPB	null
TLV70433DBVR	null
TLV70450DBVR	null
SN6501DBVR	null
TLV70450DBVT	null
TLV70433DBVT	null
LP2981IM5-5.0/NOPB	null
TPS2065DBVR	null
LMV431ACM5X/NOPB	null
LP2981AIM5-3.3/NOPB	null
LP2981IM5X-5.0/NOPB	null
SN6501DBVT	null
SN74AHC1G08DBVR	null
SN74AHC1G32DBVR	null
SN74LV1T125DBVR	null
SN74LV1T34DBVR	null
TL431AQDBVR	null
TPS2065DBVT	null
LP2981IM5X-5.0	null
TPS3125J18DBVR	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20210915000.1E		PCN Date:	January 08, 2025											
Title:	Qualify additional Assembly sites for select SOT devices														
Customer Contact:	Change Management team		Dept:	Quality Services											
Change Type:															
☒	Assembly Site	☐	Design	☐	Wafer Bump Material										
☐	Assembly Process	☐	Data Sheet	☐	Wafer Bump Process										
☒	Assembly Materials	☐	Part number change	☐	Wafer Fab Site										
☐	Mechanical Specification	☐	Test Site	☐	Wafer Fab Material										
☒	Packing/Shipping/Labeling	☐	Test Process	☐	Wafer Fab Process										
PCN Details															
Description of Change:															
Revision E is to remove devices in the Product Affected Section. These devices will continue to be manufactured as prior and will not be subjected to the change described in this notification.															
Texas Instruments Incorporated is announcing the qualification of additional Assembly sites for devices listed below in the product affected section. Construction differences and current assembly sites are as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2" style="background-color: #f4a460;">SOT-23 (DBV)</th> </tr> </thead> <tbody> <tr> <td>Assembly Sites</td> <td>TIPI, ASEWH, HFTF, HNA, TFME, TIEM, CDAT</td> </tr> <tr> <td>Lead Finish</td> <td>NiPdAu; NiPdAuAg; Matte Sn</td> </tr> <tr> <td>Mount compound</td> <td>400180 A-03 4213245 400194 4207123</td> </tr> <tr> <td>Mold Compound</td> <td>R-27 8097131 R-13 450413 R-04 450042 4222198</td> </tr> </tbody> </table> Upon expiration of this PCN, TI will combine lead free solutions in a single <u>standard part number</u>, for example; <u>INA193AIDBVR</u>– can ship with both Matte Sn and NiPdAu. When available customers may specify NiPdAu finish by ordering the part with the G4 suffix, e.g. <u>INA193AIDBVRG4</u>.”						SOT-23 (DBV)		Assembly Sites	TIPI, ASEWH, HFTF, HNA, TFME, TIEM, CDAT	Lead Finish	NiPdAu; NiPdAuAg; Matte Sn	Mount compound	400180 A-03 4213245 400194 4207123	Mold Compound	R-27 8097131 R-13 450413 R-04 450042 4222198
SOT-23 (DBV)															
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Mount compound	400180 A-03 4213245 400194 4207123														
Mold Compound	R-27 8097131 R-13 450413 R-04 450042 4222198														
Reason 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		
TI Philippines (TIPI)	Assembly Site Origin (22L)	ASO: PHI
ASEWH	Assembly Site Origin (22L)	ASO: AWH
HFTF	Assembly Site Origin (22L)	ASO: HFT
HNA	Assembly Site Origin (22L)	ASO: HNT
TFME	Assembly Site Origin (22L)	ASO: NFM
TI Chengdu (CDAT)	Assembly Site Origin (22L)	ASO: CDA
TI Melaka (TIEM)	Assembly Site Origin (22L)	ASO: CU6

Sample product shipping label (not actual product label)

(1P) SN74LS07NSR
(Q) 2000 (D) 0336
(31T) LOT: 3959047MLA
(4W) TKY (1T) 7523483SI2
(P)
(2P) REV: (V) 0033317
(20L) CSO: SHE (21L) CCO: USA
(22L) ASO: MLA (23L) ACO: MYS

Product Affected:

LM27313XMF/NOPB	SN6501DBVT	TLV70450DBVR
LM7321MF/NOPB	SN74AHC1G08DBVR	TLV70450DBVT
LMV431ACM5X/NOPB	SN74AHC1G32DBVR	TPS2065DBVR
LP2981AIM5-3.3/NOPB	SN74LV1T125DBVR	TPS2065DBVT
LP2981IM5-5.0/NOPB	SN74LV1T34DBVR	TPS3125J18DBVR
LP2981IM5X-5.0	TL431AQDBVR	TPS3125J18DBVRG4
LP2981IM5X-5.0/NOPB	TLV70433DBVR	
SN6501DBVR	TLV70433DBVT	

DBV (SOT-23) Qualification Report

Qualification Results

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

	Stress Test	Duration	PHI TPS76933DBV	CDAT TLV9061IDBV
TC	Temperature Cycling -65/150C	500 Cycles	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH	96 hours	3/231/0	3/231/- (Note a)

	Stress Test	Duration	PHI TPS76933DBV	CDAT TLV9061IDBV
HTSL	High Temp. Storage Bake 170C	420 hours	3/231/0	3/231/0
UHA ST	Unbiased HAST, 130C/85%RH	96 hours	-	3/231/0
AC	Autoclave 121C	96 hours	3/231/0	-
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	TFM E SN74AHC1G14DBV	HNA INA293A1IDBV
TC	Temperature Cycling -65/150C	500 Cycles	3/231/0	3/231/0
HAST	Biased HAST 130C/85%RH	96 hours	3/231/0	3/231/0
HTSL	High Temp. Storage Bake 170C	420 hours	3/231/0	3/231/0
UHA ST	Unbiased HAST, 130C/85%RH	96 hours	-	3/231/0
AC	Autoclave 121C	96 hours	3/231/0	-
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0	3/66/0 (SN74LV C1GU04DBV)
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	TIEMA DAC121S101CIM K	HFTAT TLV70333DBV	ASEWH TL431CDBV
TC	Temperature Cycling -65/150C	500 Cycles	-	3/231/0	3/231/0
TC	Temperature Cycling -55/150C	1000 Cycles	3/231/0	-	-
HAST	Biased HAST 130C/85%RH	96 hours	-	3/231/0	3/231/0
THB	Temperature Humidity Bias 85C/85%RH	1000 hours	3/231/0	-	-
HTSL	High Temp. Storage Bake 150C	1000 hours	3/231/0	-	3/231/0
HTSL	High Temp. Storage Bake 170C	420 hours	-	3/231/0	-
UHA ST	Unbiased HAST, 130C/85%RH	96 hours	-	3/231/0	-
AC	Autoclave 121C	96 hours	3/231/0	-	3/231/0
SD	Solderability	8 Hour Steam age or 155C Dry Bake	3/66/0 (LM2660MM/NOPB)	3/66/0 (TLV74333PDBV)	3/66/0
MQ	Manufacturability	-	Pass	Pass	Pass

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

Note a – Data collection in progress. Data will be made available upon request after completion.

- 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 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 Change Management team or your local Field Sales Representative.

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