



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

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

Date: August 30, 2023
To: Digi-Key PCN

Dear Customer:

The purpose of **Revision B** is to retract devices which was included in error. We apologize for the 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

20210915000.1B
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
74LVC1G132DBVRG4	null
INA138NA/250	null
INA138NA/3K	null
INA139NA/250	null
INA139NA/3K	null
INA168NA/250	null
INA168NA/3K	null
INA169NA/250	null
INA169NA/3K	null
INA193AIDBVR	null
INA193AIDBVT	null
INA194AIDBVR	null
INA194AIDBVT	null
INA195AIDBVT	null
INA196AIDBVR	null
INA196AIDBVT	null
INA197AIDBVT	null
INA198AIDBVT	null
LMV321IDBVR	null
LMV331IDBVR	null
LP2981-50DBVR	null
LP2981A-30DBVR	null
LP2981A-33DBVR	null
LP2981A-50DBVR	null
LP2985-18DBVR	null
LP2985-30DBVR	null
LP2985-33DBVR	null
LP2985-33DBVT	null
LP2985-50DBVR	null
LP2985A-18DBVR	null
LP2985A-25DBVR	null
LP2985A-33DBVR	null
LP2985A-50DBVR	null
OPA137NA/250	null
OPA237NA/250	null
OPA237NA/3K	null
OPA244NA/250	null
OPA244NA/3K	null
OPA330AIDBVT	null
OPA333AIDBVR	null
OPA333AIDBVT	null
OPA335AIDBVT	null
OPA336N/250	null
OPA336NA/250	null
OPA337NA/250	null
OPA340NA/250	null
OPA340NA/3K	null
OPA343NA/250	null
OPA344NA/250	null
OPA348AIDBVT	null
OPA354AIDBVT	null
OPA356AIDBVT	null
OPA364AIDBVT	null
OPA364IDBVT	null
OPA365AIDBVT	null
OPA374AIDBVT	null
OPA376AIDBVT	null

OPA703NA/250	null
OPA704NA/3K	null
OPA735AIDBVT	null
OPA743NA/3K	null
OPA820IDBVT	null
REG102NA-2.5/250	null
REG102NA-A/250	null
SN105125DBVR	null
SN65LVDS1DBVR	null
SN65LVDS1DBVT	null
SN65LVDS2DBVR	null
SN65LVDS2DBVT	null
SN65LVDT2DBVR	null
SN65LVDT2DBVT	null
SN74AHC1G14DBVR	null
SN74AUC1G04DBVR	null
SN74AUC1G06DBVR	null
SN74AUC1G14DBVR	null
SN74AUC1G66DBVR	null
SN74AUP1G04DBVR	null
SN74AUP1G06DBVR	null
SN74AUP1G07DBVR	null
SN74AUP1G17DBVR	null
SN74LVC1G02DBVR	null
SN74LVC1G04DBVRG4	null
SN74LVC1G04DBVTG4	null
SN74LVC1G08DBVRG4	null
SN74LVC1G08DBVTG4	null
SN74LVC1G132DBVTG4	null
SN74LVC1G14DBVR	null
SN74LVC1G14DBVT	null
SN74LVC1G17DBVR	null
SN74LVC1G17DBVT	null
SN74LVC1G34DBVR	null
SN74LVC1G34DBVRG4	null
SN74LVC1G34DBVTG4	null
SN74LVC1G38DBVRG4	null
SN74LVC1G38DBVTG4	null
SN74LVC1G66DBVR	null
TL331IDBVT	null
TL331KDBVR	null
TL431ACDBVR	null
TL431AIDBVR	null
TL431BQDBVR	null
TL431IDBVR	null
TL431QDBVR	null
TLV2221CDBVR	null
TLV2231IDBVT	null
TLV2371IDBVT	null
TLV2401IDBVT	null
TLV2471IDBVR	null
TLV2471IDBVT	null
TLV271CDBVT	null
TLV271IDBVR	null
TLV271IDBVT	null
TLV27L1IDBVR	null
TLV3401IDBVR	null
TLV3491AIDBVR	null
TLV3491AIDBVT	null
TLV3701CDBVT	null
TLV3701IDBVT	null
TLV431ACDBVR	null
TLV431AIDBVR	null
TLV431BCDBVR	null
TLV431BIDBVR	null
TLV431BQDBVR	null
TLV431IDBVR	null
TLVH431ACDBVR	null
TLVH431BCDBVR	null
TPS2041BDBVR	null

TPS2041BDBVT	null
TPS2051BDBVR	null
TPS2051BDBVT	null
TPS2400DBVT	null
TPS3820-33DBVR	null
TPS3820-33DBVT	null
TPS3823-30DBVR	null
TPS3823-33DBVR	null
TPS3823-33DBVT	null
TPS3823-50DBVT	null
TPS3824-30DBVR	null
TPS3824-33DBVR	null
TPS3825-33DBVR	null
TPS3825-33DBVT	null
TPS3825-50DBVT	null
TPS3828-33DBVR	null
TPS3828-33DBVT	null
TPS3828-50DBVT	null
TPS3837E18DBVT	null
TPS3838K33DBVR	null
TPS60400DBVR	null
TPS60400DBVT	null
TPS60401DBVT	null
TPS60402DBVT	null
TPS60403DBVR	null
TPS60403DBVT	null
TPS61040DBVR	null
TPS62200DBVR	null
TPS62202DBVT	null
TPS62203DBVT	null
TPS62205DBVT	null
TPS62207DBVT	null
TPS72115DBVT	null
TPS72118DBVT	null
TPS72215DBVT	null
TPS72218DBVT	null
TPS72301DBVR	null
TPS72301DBVT	null
TPS72325DBVT	null
TPS73018DBVT	null
TPS73025DBVR	null
TPS73028DBVT	null
TPS73033DBVR	null
TPS73033DBVT	null
TPS73101DBVR	null
TPS73101DBVT	null
TPS73118DBVT	null
TPS73125DBVT	null
TPS73133DBVT	null
TPS73201DBVR	null
TPS73201DBVT	null
TPS73216DBVT	null
TPS73225DBVT	null
TPS73601DBVR	null
TPS73601DBVT	null
TPS73618DBVR	null
TPS73618DBVT	null
TPS73625DBVT	null
TPS73630DBVT	null
TPS73633DBVR	null
TPS73633DBVT	null
TPS76150DBVR	null
TPS76150DBVT	null
TPS76316DBVR	null
TPS76318DBVR	null
TPS76318DBVT	null
TPS76333DBVR	null
TPS76333DBVT	null
TPS76350DBVR	null
TPS76350DBVT	null

TPS76901DBVR	null
TPS76901DBVT	null
TPS76915DBVR	null
TPS76933DBVR	null
TPS77025DBVR	null
TPS77030DBVR	null
TPS77033DBVR	null
TPS77033DBVT	null
TPS79133DBVR	null
TPS79147DBVT	null
TPS79318DBVR	null
TPS79325DBVR	null
TPS79328DBVR	null
TPS79330DBVR	null
TPS79333DBVR	null
TS321IDBVR	null
TS5A1066DBVR	null
TS5A3166DBVR	null

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

PCN Number:	20210915000.1B			PCN Date:	August 30, 2023										
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 B is to remove devices in the Product Affected Section. This device 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: 40px;"> <thead> <tr> <th colspan="2">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

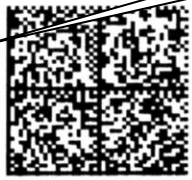
Changes to product identification resulting from this PCN:

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)



TEXAS INSTRUMENTS
MADE IN: Malaysia
2DC: 20:
MSL '2 /260C/1 YEAR SEAL DT
MSL 1 /235C/UNLIM 03/29/04
OPT: 39
ITEM: LBL: 5A (L)T0:1750



E4/G4: NiPdAu
E3/G3: Matte Sn

(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:

Refer to page 2 of this document to view your affected products

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)
HTSL	High Temp. Storage Bake 170C	420 hours	3/231/0	3/231/0
UHA	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	3/66/0	3/66/0

	Stress Test	Duration	PHI TPS76933DBV	CDAT TLV9061IDBV
		Dry Bake		
MQ	Manufacturability	-	Pass	Pass

	Stress Test	Duration	TFME 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	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	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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