

PCN# 20240429005.1 Qualification of RFAB using qualified Process Technology, Die Revision, Datasheet, and additional Assembly site/BOM options for select devices Change Notification / Sample Request

Date: April 30, 2024 To: PREMIER FARNELL PCN

Dear Customer:

This is an announcement of a change to a device that is currently offered by Texas Instruments (TI). The details of this change are on the following pages, and are in alignment with our standard product change notification (PCN) <u>process</u>.

TI 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, given that samples are not built ahead of the change.

The Proposed First Ship date in this PCN letter is the earliest possible date that customers could receive the changed material. It is our commitment that the changed device will not ship before that date. If samples are requested within the 30 day sample request window, customers will still have 30-days to complete their evaluation regardless of the proposed 1st ship date.

This particular PCN is related to TI's multiyear transition plan for our two remaining factories with 150-millimeter production (DFAB in Dallas, Texas, and SFAB in Sherman, Texas). DFAB will remain open, but will focus on 200-mm production, with a smaller set of technologies. SFAB will close no earlier than 2024 and no later than 2025. As referenced in the "reason for change" below, these changes are part of our multiyear plan to transition these products to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity.

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. As always, we thank you for your continued business.

Change Management Team SC Business Services

20240429005.1 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 |
|----------|----------------------|
| SN75174N | NULL |

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

| CN Numbe | | 20240429005 | | | PCN D | | | 30, 2024 |
|---|---|--|--|--|----------------------|---------|---------|-------------|
| | | of RFAB using | | | | | | |
| | | nd additional A | | | · · | for sel | | |
| ustomer C | Contact: | Change M | anagement | _ | Dept: | | Quali | ty Services |
| • | st Ship Dat | | | acce | le reqເ epted ເ | intil: | | 30, 2024* |
| | | eived after M | lay 30, 202 | 24 will n | ot be s | suppo | rted. | |
| nange Typ | | | | | | _ | | |
| Assemb | | | Design | | | | | mp Material |
| 2 | ly Process | | Data Sheet | | | = | | mp Process |
| | ly Materials | | Part numbe | r change | | | fer Fal | |
| 2 | ical Specific | | Test Site | | | - | | o Material |
| Packing | /Shipping/L | abeling | Test Proces | | | | ter Fal | o Process |
| | | | PCN Det | ails | | | | |
| | of Change | | | | | | | |
| additiona | l Wafer Fab | eased to annou option in addit | | | | | | |
| ted below. | | | | | A .1 .1 . | | E-h C | |
| | | Fab Site | | | | ional | | |
| Current Fa Site | b Proce | ss Wafer D | nameter | Additio | | Proc | ess | Wafer |
| SFAB | JI1 | 150 | mm | Fab Si | te | | | Diameter |
| SFAD | | | mm | | | | | |
| SEVB | 1 () 1 | | | | | | | |
| SFAB | | | | REAR | | I BC | ~7 | 300 mm |
| SFAB | IMPC6 | 0 150 | mm | RFAE | 3 | LBC | 7 | 300 mm |
| | IMPC6 LBC2 | 0 150 150 | mm mm | RFAE | 3 | LBC | 27 | 300 mm |
| SFAB DFAB DFAB ne die was | IMPC6 LBC2 LBC3 also change | 0 150 150 | mm mm / 200mm of the proces | | | LBC | 27 | 300 mm |
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| SFAB DFAB DFAB ne die was onstruction roup 1 De roup 2 De Asser roup 3 De Asser | IMPC6 LBC3 also change differences vice: No m vice: No m nbly site vice: No m nbly site vice: No m | 0 150 2 150 S 150mm / ad as a result of are as follows aterial chang aterial differen MLA aterial differen MLA aterial differen MLA aterial differen MLA | mm mm / 200mm of the proces :: ge ces betwee ces betwee | ss change n sites Propose FMX n sites Propose CDAT n sites Propose | ed ed | | | 300 mm |
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| SFAB DFAB DFAB ne die was onstruction roup 1 De roup 2 De Asser roup 3 De Asser roup 4 De Asser | IMPC6 LBC2 LBC3 also change differences vice: No m vice: No m nbly site vice: No m nbly site vice: No m nbly site vice: No m nbly site vice: No m | 0 150 2 150 S 150mm / ed as a result of are as follows aterial change aterial differen MLA aterial differen Current MLA aterial differen Current MLA aterial differen Current MLA aterial differen TAI | mm mm / 200mm of the proces :: ge ces betwee ces betwee | ss change n sites Propose FMX n sites Propose CDAT n sites Propose MLA MLA 414785 | ed ed ed | | | 300 mm |
| SFAB DFAB DFAB DFAB ne die was onstruction roup 1 De roup 2 De Asser roup 3 De Asser roup 4 De Asser roup 5 De | IMPC6 LBC2 LBC3 also change differences vice: No m vice: No m nbly site vice: No m nbly site vice: No m nbly site vice: No m | 0 150 2 150 S 150mm / ed as a result of are as follows aterial change aterial differen Current MLA aterial differen Current MLA aterial differen Current MLA aterial differen Current MLA aterial differen Current TAI 4042500 4205694 | mm mm / 200mm of the proces :: ge ces betwee ces betwee | ss change ropose FMX n sites Propose CDAT n sites Propose MLA MLA 414785 421188 | e. ed ed ed | | | 300 mm |

TEXAS INSTRUMENTS

SLLS038C - OCTOBER 1980 - REVISED APRIL 2024

| С | hanges from Revision B (May 1995) to Revision C (April 2024) | Page |
|---|--|----------------|
| • | Changed the numbering format for tables, figures, and cross-references throughout the document | 1 |
| • | Added the Thermal Information table | 5 |
| • | Changed Note A in Figure 6-2 and Figure 6-3 | <mark>8</mark> |

| | TEXAS INSTRUMENTS | SN75174 SLLS039C – OCTOBER 1980 – REVISED APRIL 2024 |
|---|--|---|
| С | hanges from Revision B (May 1995) to Revision C (April 2024) | Page |
| • | Changed the numbering format for tables, figures, and cross-refere | nces throughout the document1 |
| • | Added the Thermal Information table | 5 |
| • | Changed Note A in Figure 6-3 | 9 |

| TEXAS INSTRUMENTS | SILS121E – AUGUST 1990 – REVISED APRIL 2024 |
|---|--|
| Changes from Povision D (April 4009) to Povision | E (April 2024) Dage |
| Changes from Revision D (April 1998) to Revision | E (April 2024) Page |
| | and cross-references throughout the document |
| Changed the numbering format for tables, figures, | |

| TEXAS INSTRUMENTS | SN75ALS174A SLLS122G – JULY 1991 – REVISED APRIL 2024 |
|---|--|
| Changes from Revision F (January 2018) to Revision G (April 20 | 24) Page |
| Changed the numbering format for tables, figures, and cross-reference. Added the <i>Thermal Information</i> table. Changed Note A in Figure 6-3 | |

| TEXAS INSTRUMENTS | SN65LBC174, SN75LBC174 SLLS162F – JULY 1993 – REVISED APRIL 2024 |
|---|---|
| Changes from Revision E (April 2006) to Revision F (April 2024) | Page |
| Changed the numbering format for tables, figures, and cross-refere | ences throughout the document1 |
| Added the Thermal Information table | |
| Changed the t _{t(OD)} MIN value from 10ns to 9ns in the Switching Ch | aracteristics 7 |

| V INSTRUMENTS | SN65LBC172, SN75LBC17 SLLS163F – JULY 1993 – REVISED APRIL 20 |
|--|--|
| Changes from Revision E (April 2006) to Revision F (April 20 | 024) Page |
| · Changed the numbering format for tables, figures, and cross- | references throughout the document 1 |
| Added the Thermal Information table | |
| | |
| | |
| | |
| TEXAS | SN65LBC174A, SN75LBC174 |

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| | vision F (October | | | Page |
|---|--|--|--|--|
| | | | d cross-references throughout the document | |
| Texas Instrument | TS | | SN65LBC172A, SN75 SLLS447D – OCTOBER 2000 – REVISED | |
| Changes from Rev | ision C (August 2 | 2008) to Revision | | Page |
| Changed the nu | mbering format for | tables, figures, an | d cross-references throughout the document | |
| TEXAS INSTRUMENT | ſS | | AN SLLS848C – APRIL 2008 – REVISED | APRIL 202 |
| hanges from Rev | ision B (Septemb | er 2016) to Revis | ion C (April 2024) | Pag |
| - | | | Information table | |
| | | | | |
| Changed the not | e in Figure 6-3 | | | |
| | vision * (June 2023 | | SLLSFU5A – JUNE 2023 – REVISEI | Page |
| INSTRUMENT Changes from Rev Changed the Th | vision * (June 2023 Dermal Information t | table | SLLSFU5A – JUNE 2023 – REVISE | Page |
| INSTRUMEN Changes from Rev Changed the Th Changed Note A | vision * (June 2023 Dermal Information t | table | SLLSFU5A – JUNE 2023 – REVISEI | Page |
| INSTRUMENT Changes from Rev Changed the Th | vision * (June 2023 permal Information t A in Figure 6-4 | table | SLLSFU5A – JUNE 2023 – REVISEI | Page |
| Changes from Rev Changed the Th Changed Note A Product | vision * (June 2023 nermal Information t A in Figure 6-4 Current Datasheet | New Datasheet | SLLSFU5A – JUNE 2023 – REVISEI | Page |
| Changes from Rev Changed the Th Changed Note A Product Folder | vision * (June 2023 nermal Information to A in Figure 6-4 Current Datasheet Number | New Datasheet Number | SLLSFU5A – JUNE 2023 – REVISE | 2 <u>2</u> |
| Changes from Rev Changed the Th Changed Note A Product Folder SN75172 SN75174 | vision * (June 2023 permal Information to A in Figure 6-4 Current Datasheet Number SLLS038B | New Datasheet Number SLLS038C | SLLSFU5A – JUNE 2023 – REVISE April 2024) Link to full datasheet http://www.ti.com/product/SN7517 | 2 2 4 |
| INSTRUMEN Changes from Rev Changed the Th Changed Note A Product Folder SN75172 SN75174 SN75ALS172A | vision * (June 2023 nermal Information to A in Figure 6-4 Current Datasheet Number SLLS038B SLLS039B | New Datasheet Number SLLS038C SLLS039C | SLLSFU5A – JUNE 2023 – REVISE April 2024) Link to full datasheet <u>http://www.ti.com/product/SN7517</u> <u>http://www.ti.com/product/SN7517</u> | 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |
| INSTRUMEN Changes from Rev Changed the Th Changed Note A Product Folder SN75172 SN75174 SN75174 SN75ALS172A SN75ALS172A SN65LBC174, | vision * (June 2023 permal Information to A in Figure 6-4 Current Datasheet Number SLLS038B SLLS039B SLLS121D | New Datasheet Number SLLS038C SLLS039C SLLS121E | SLLSFU5A – JUNE 2023 – REVISEI April 2024) Link to full datasheet <u>http://www.ti.com/product/SN7517</u> <u>http://www.ti.com/product/SN7517</u> <u>http://www.ti.com/product/SN7517</u> | 2 <u>2</u> <u>4</u> <u>5172A</u> <u>5174A</u> |
| INSTRUMEN Changes from Rev Changed the Th Changed Note A Product Folder SN75172 SN75174 SN75174 SN75ALS172A SN75ALS174A SN65LBC174, SN75LBC174 SN65LBC172, | vision * (June 2023 nermal Information to A in Figure 6-4 Datasheet Number SLLS038B SLLS039B SLLS121D SLLS122F | New Datasheet Number SLLS038C SLLS039C SLLS121E SLLS122G SLLS162F SLLS163F | SLLSFU5A – JUNE 2023 – REVISEI April 2024) Link to full datasheet http://www.ti.com/product/SN7517 http://www.ti.com/product/SN7517 http://www.ti.com/product/SN75AL http://www.ti.com/product/SN75AL | 2 <u>2</u> <u>4</u> <u>5172A</u> <u>5174A</u> <u>C174</u> |
| INSTRUMEN Changes from Rev Changed the Th Changed Note A Product Folder SN75172 SN75174 SN75ALS172A SN75ALS172A SN75LBC174 SN65LBC172, SN75LBC172 | vision * (June 2023 nermal Information to A in Figure 6-4 Datasheet Number SLLS038B SLLS039B SLLS121D SLLS122F SLLS162E | New Datasheet Number SLLS038C SLLS039C SLLS121E SLLS122G SLLS162F | April 2024) Link to full datasheet http://www.ti.com/product/SN7517 http://www.ti.com/product/SN7517 http://www.ti.com/product/SN75AL http://www.ti.com/product/SN75AL | 2 <u>2</u> <u>4</u> <u>5172A</u> <u>5174A</u> <u>C174</u> <u>C172</u> |
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| INSTRUMEN Changes from Rev Changed the Th Changed Note A Product Folder SN75172 | Current Datasheet Number SLLS038B SLLS121D SLLS122F SLLS162E SLLS446F | New Datasheet Number SLLS038C SLLS039C SLLS121E SLLS122G SLLS162F SLLS163F SLLS163F | SLLSFU5A – JUNE 2023 – REVISEI April 2024) Link to full datasheet http://www.ti.com/product/SN7517 http://www.ti.com/product/SN7517 http://www.ti.com/product/SN7517 http://www.ti.com/product/SN7517 http://www.ti.com/product/SN75AL http://www.ti.com/product/SN75AL http://www.ti.com/product/SN65LB http://www.ti.com/product/SN65LB http://www.ti.com/product/SN65LB | 2 <u>2</u> <u>4</u> <u>5172A</u> <u>5174A</u> <u>6</u> <u>774A</u> <u>6</u> <u>774A</u> <u>6</u> <u>774A</u> <u>6</u> <u>774A</u> <u>6</u> <u>774A</u> <u>772A</u> <u>772A</u> |

Qual details are provided in the Qual Data Section.

Reason for Change:

These changes are part of our multiyear plan to transition products from our 150-millimeter factories to newer, more efficient manufacturing processes and technologies, underscoring our commitment to product longevity and supply continuity.

Anticipated impact on Form, Fit, 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 i | Changes to product identification resulting from this PCN: | | | | | |
| Fab Site Information: | | | | | | |
| Chip Site | Chip Site Origin Code (20L) | Chip Site Country Code (21L) | Chip Site City | | | |
| SH-BIP-1 | SHE | USA | Sherman | | | |
| DL-LIN | DLN | USA | Dallas | | | |
| RFAB | RFB | USA | Richardson | | | |
| | | | | | | |

Die Rev:

| Current | New |
|--------------|--------------|
| Die Rev [2P] | Die Rev [2P] |
| A, B, C,- | - |

Assembly Site Information:

| Assembly Site | Assembly Site Origin (22L) | Assembly Country Code (23L) | Assembly City |
|---------------|-------------------------------|--------------------------------|------------------------------|
| TAI | TAI | TWN | Chung Ho, New Taipei City |
| CDAT | CDA | CHN | Chengdu |
| MLA | MLA | MYS | Kuala Lumpur |
| FMX | MEX | MEX | Aguascalientes |

Sample product shipping label (not actual product label):



| Product Affected: | | | | | | | |
|--------------------|------------------------|------------------|----------|--|--|--|--|
| Group 1 Device: Wa | afer fab, Design, Data | sheet | | | | | |
| AM26LV31EINSR | AM26LV31INSR | SN65LBC174A16DWR | SN75174N | | | | |
| | · | · | | | | | |

| AM26LV31EIPWR | SN65LBC172A16DWR | SN65LBC174A16DWR | G4 SN75174NE4 | | | | | |
|---|----------------------------|-------------------|----------------|--|--|--|--|--|
| AM26LV31EIPWRG4 | SN65LBC172AN | SN65LBC174AN | SN65LBC172ADWR | | | | | |
| AM26LV31IDR | AM26LV31IDR SN65LBC172ANE4 | | | | | | | |
| Group 2 Device: Wafer fab, Design, Data sheet, Assembly site | | | | | | | | |
| AM26LV31EIDR | AM26LV31EIDRG4 | | | | | | | |
| Group 3 Device: Wafer fab, Design, Data sheet, Assembly site | | | | | | | | |
| AM26LV31EIRGYR | AM26LV31EIRGYRG4 | 1 | | | | | | |
| Group 4 Device: Wa | fer fab, Design, Data | sheet, Assembly s | ite | | | | | |
| SN75ALS174ADWR | SN75174DWR | SN75174DWRE4 | SN75172DWR | | | | | |
| Group 5 Device: Wafer fab, Design, Data sheet, Assembly site, BOM | | | | | | | | |
| SN65LBC174ADWR | SN75LBC172DWR | SN75ALS172ADW | /R | | | | | |
| SN65LBC174DWR | SN75ALS174DWR | | | | | | | |
| | | | | | | | | |

For alternate parts with similar or improved performance, please visit the product page on TI.com

Qualification Results

| | | | | | | Dat | a Displayed a | s: Number (| of lots / Tot | al sample size | Total failed | | | | | |
|-------|----|-------------------------------------|--------------------------------|----------------|--------------------------------|--------------------------------|--------------------------------------|----------------------------|-----------------------------------|---------------------------------------|--------------------------------|--------------------------------------|--------------------------------------|--|--|---|
| Туре | # | Test Name | Condition | Duration | Qual Device: SN65LBC172ADWR | Qual Device: SN65LBC174ADWR | Qual Device: <u>SN65LBC174DWR</u> | Qual Device: SN75172DWR | Qual Device: <u>SN75174DWR</u> | Qual Device: <u>SN75ALS172ADWR</u> | Qual Device: SN75ALS174ADWR | Qual Device: <u>SN75ALS174DWR</u> | Qual Device: <u>SN75LBC172DWR</u> | QBS Reference (Package): ULN2803CDWR | QBS Reference (Package): <u>SN74HCS244QPWRQ1</u> | QBS Reference (Product): AM26LV31EIDR |
| HAST | A2 | Biased HAST | 130C/85%RH | 96 Hours | | | | | | | | | | | 1/77/0 | |
| UHAST | A3 | Autoclave | 121C/15psig | 96 Hours | - | - | | • | | - | - | | | | 3/231/0 | |
| тс | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | - | - | - | - | - | - | - | - | 1/77/0 | 1/77/0 | |
| HTSL | A6 | High Temperature Storage Life | 150C | 1000 Hours | - | - | | - | - | - | - | - | - | - | 1/45/0 | |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | - | - | |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | | | |
| ESD | E2 | ESD CDM | | 1000 Volts | 1/3/0 | 1/3/0 | | | | | | - | | | | 1/3/0 |
| ESD | E2 | ESD HBM (Bus Pins) | | 12000 Volts | 1/3/0 | 1/3/0 | | - | - | - | - | - | | - | - | |
| ESD | E2 | ESD HBM | | 2000 Volts | | | | | - | | | - | | | | 1/3/0 |
| ESD | E2 | ESD HBM | | 4000 Volts | | | 1/3/0 | | | 1/3/0 | 1/3/0 | 1/3/0 | 1/3/0 | | | |
| ESD | E2 | ESD HBM | | 5000 Volts | 1/3/0 | 1/3/0 | - | - | - | - | - | - | - | - | | |
| LU | E4 | Latch-Up | Per JESD78 | • | 1/6/0 | 1/6/0 | 1/6/0 | | | 1/6/0 | 1/6/0 | 1/6/0 | 1/6/0 | | 1/6/0 | 1/6/0 |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | - | 1/30/0 |

QBS: Qual By Similarity
 Qual Device SN65LBC172ADWR is qualified at MSL1 260C
 Qual Device SN65LBC174DWR is qualified at MSL1 260C
 Qual Device SN7512CWR is qualified at MSL1 260C
 Qual Device SN75172WR is qualified at MSL1 260C
 Qual Device SN7514DWR is qualified at MSL1 260C
 Qual Device SN754LS174DWR is qualified at MSL1 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Blased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
 The following are equivalent HTOL options based on an activation energy of 0.7eV : 152C/L Hours, 140/C480 hours, 150C/300 Hours, and 155C/240 Hours
 The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/L Hours, and 170C/420 Hours,
 The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/L Hours, and 170C/420 Hours,
 The following are equivalent Temp Cycle options per JESD47 :-55C/L25C/700 Cycles and -65C/L50C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2206-018

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31IDR</u> | QBS Reference (Package): <u>TCA9546ADR</u> | QBS Reference (Package): <u>TL494IDR</u> | QBS Reference (Process): <u>AM26LV31EIDR</u> |
|-------|----|-------------------------------|---|------------|------------------------------------|---|---|--|
| HAST | A2 | Biased HAST | 130C/85%RH | 96 Hours | - | - | 3/231/0 | - |
| UHAST | A3 | Unbiased HAST | 130C/85%RH | 96 Hours | - | 3/231/0 | - | - |
| тс | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | 3/231/0 | - | - |
| HTSL | A6 | High Temperature Storage Life | 150C | 1000 Hours | - | 3/231/0 | - | - |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | - | - | - | 1/76/0 |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | - | - | - | 1/76/0 |
| SD | C3 | PB-Free Solderability | Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder; | - | - | 3/66/0 | - | - |
| ESD | E2 | ESD CDM | - | 250 Volts | 1/3/0 | - | - | 1/3/0 |
| ESD | E2 | ESD HBM | - | 1000 Volts | 1/3/0 | - | - | - |
| LU | E4 | Latch-Up | Per JESD78 | - | 1/3/0 | - | - | - |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | - | - | - |

QBS: Qual By Similarity

Qual Device AM26LV31IDR is qualified at MSL1 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

• The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

• The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

• The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2212-024

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>SN65LBC172AN</u> | Qual Device: <u>SN65LBC174AN</u> | Qual Device: <u>SN75172N</u> | Qual Device: <u>SN75174N</u> | QBS Reference (Package): <u>MSP430F2013IN</u> | QBS Reference (Process, Product): <u>SN74HCS74QPWRQ1</u> |
|-------|----|-------------------------------------|--------------------------|---------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|---|--|
| UHAST | A3 | Autoclave | 121C/15psig | 96 Hours | - | - | - | - | 3/231/0 | - |
| тс | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | - | - | - | 3/231/0 | - |
| HTSL | A6 | High Temperature Storage Life | 170C | 420 Hours | - | - | - | - | 3/231/0 | - |
| HTOL | B1 | Life Test | 125C | 1000 Hours | - | - | - | - | - | 3/231/0 |
| ELFR | B2 | Early Life Failure Rate | 125C | 48 Hours | - | - | - | - | - | 3/2400/0 |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | - | - |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | 1/76/0 | 1/76/0 | 1/76/0 | - | - |
| SD | C3 | PB-Free Solderability | 8 Hours Steam Age | - | - | - | - | - | 3/66/0 | - |
| ESD | E2 | ESD CDM | - | 1000 Volts | 1/3/0 | - | 1/3/0 | - | - | - |

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>SN65LBC172AN</u> | Qual Device: <u>SN65LBC174AN</u> | Qual Device: <u>SN75172N</u> | Qual Device: <u>SN75174N</u> | QBS Reference (Package): <u>MSP430F2013IN</u> | QBS Reference (Process, Product): <u>SN74HCS74QPWRQ1</u> |
|------|----|--------------------------------|--------------------------------|----------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|---|--|
| ESD | E2 | ESD HBM (Bus Pins) | - | 12000 Volts | 1/3/0 | 1/3/0 | - | - | - | - |
| ESD | E2 | ESD HBM | - | 2000 Volts | - | - | 1/3/0 | 1/3/0 | - | 1/3/0 |
| ESD | E2 | ESD HBM | - | 5000 Volts | 1/3/0 | 1/3/0 | - | - | - | - |
| LU | E4 | Latch-Up | Per JESD78 | - | 1/6/0 | 1/6/0 | 1/6/0 | 1/6/0 | - | - |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | 1/30/0 | 1/30/0 | 1/30/0 | - | - |

• QBS: Qual By Similarity

Qual Device SN65LBC172AN is qualified at NOT CLASSIFIED NOT CLASSIFIED

Qual Device SN65LBC174AN is qualified at NOT CLASSIFIED NOT CLASSIFIED

Qual Device SN75172N is qualified at NOT CLASSIFIED NOT CLASSIFIED

Qual Device SN75174N is qualified at NOT CLASSIFIED NOT CLASSIFIED

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

• The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

• The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2205-045

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EINSR</u> | Qual Device: <u>AM26LV31INSR</u> | QBS Reference (Package): <u>SN74LVC8T245NSR</u> | QBS Reference (Product): <u>AM26LV31EIDR</u> |
|------|----|-------------------------------|--------------------------------|-------------|--------------------------------------|-------------------------------------|---|--|
| тс | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | - | 3/231/0 | - |
| HTSL | A6 | High Temperature Storage Life | 150C | 1000 Hours | - | - | 3/231/0 | - |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | 1/76/0 | - | - |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | 1/76/0 | - | - |
| ESD | E2 | ESD CDM | - | 250 Volts | - | 1/3/0 | - | - |
| ESD | E2 | ESD HBM | - | 1000 Volts | 1/3/0 | - | - | 1/3/0 |
| ESD | E2 | ESD HBM (Bus Pins) | - | 15000 Volts | 1/3/0 | - | - | 1/3/0 |
| LU | E4 | Latch-Up | Per JESD78 | - | - | - | - | 1/6/0 |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | 1/30/0 | - | 1/30/0 |

• QBS: Qual By Similarity

Qual Device AM26LV31EINSR is qualified at MSL1 260C

Qual Device AM26LV31INSR is qualified at MSL1 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

• The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

• The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2206-017

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EIRGYR</u> | QBS Reference (Package): <u>TS3A5017QRGYRQ1</u> | QBS Reference (Process): TPS59632QRHBRQ1 | QBS Reference (Product): AM26LV31EIDR |
|-------|----|----------------------------------|---|------------|---------------------------------------|---|--|---|
| HAST | A2 | Biased HAST | 130C/85%RH | 96 Hours | - | 3/231/0 | - | - |
| UHAST | A3 | Autoclave | 121C/15psig | 96 Hours | - | 3/231/0 | - | - |
| TC | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | 3/231/0 | - | - |
| HTSL | A6 | High Temperature Storage Life | 150C | 1000 Hours | - | 3/135/0 | - | - |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | - | - | 1/76/0 |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | - | - | 1/76/0 |
| SD | C3 | PB Solderability | Precondition w.155C Dry Bake (4 hrs +/- 15 minutes) | - | - | 1/15/0 | - | _ |
| SD | C3 | PB-Free Solderability | Precondition w.155C Dry Bake (4 hrs +/- 15 minutes) | - | - | 1/15/0 | - | - |

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EIRGYR</u> | QBS Reference (Package): <u>TS3A5017QRGYRQ1</u> | QBS Reference (Process): <u>TPS59632QRHBRQ1</u> | QBS Reference (Product): <u>AM26LV31EIDR</u> |
|------|----|-----------------------------|--------------------------------|-------------|---------------------------------------|---|---|--|
| ESD | E2 | ESD CDM | - | 250 Volts | 1/3/0 | - | - | - |
| ESD | E2 | ESD HBM (Bus Pins) | - | 15000 Volts | - | - | - | 1/3/0 |
| ESD | E2 | ESD HBM | - | 2000 Volts | - | - | - | 1/3/0 |
| LU | E4 | Latch-Up | Per JESD78 | - | - | - | - | 1/6/0 |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | - | - | 1/30/0 |

• QBS: Qual By Similarity

Qual Device AM26LV31EIRGYR is qualified at MSL2 260C

· Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

• The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2205-046

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EIPWR</u> | QBS Reference (Product): <u>AM26LV31EINSR</u> | QBS Reference (Package, Process): <u>TCA6416PW</u> |
|-------|----|-------------------------------|--------------------------|-------------|--------------------------------------|---|---|
| HAST | A2 | Biased HAST | 130C/85%RH | 96 Hours | - | - | 3/231/0 |
| UHAST | A3 | Autoclave | 121C/15psig | 96 Hours | - | - | 3/231/0 |
| TC | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | - | 3/231/0 |
| HTSL | A6 | High Temperature Storage Life | 150C | 1000 Hours | - | - | 3/231/0 |
| HTOL | B1 | Life Test | 125C | 1000 Hours | - | - | 3/231/0 |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | - | - |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | - | - |
| ESD | E2 | ESD CDM | - | 1000 Volts | 1/3/0 | 1/3/0 | - |
| ESD | E2 | ESD CDM | - | 250 Volts | - | - | - |
| ESD | E2 | ESD HBM | - | 1000 Volts | - | 1/3/0 | - |
| ESD | E2 | ESD HBM (Bus Pins) | - | 15000 Volts | 1/3/0 | 1/3/0 | - |
| ESD | E2 | ESD HBM | - | 2000 Volts | 1/3/0 | - | - |
| LU | E4 | Latch-Up | Per JESD78 | - | - | - | 1/6/0 |

PCN# 20240429005.1

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EIPWR</u> | QBS Reference (Product): <u>AM26LV31EINSR</u> | QBS Reference (Package, Process): <u>TCA6416PW</u> |
|------|----|-----------------------------|-----------------------------|----------|--------------------------------------|---|---|
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | 1/30/0 | 1/30/0 |

• QBS: Qual By Similarity

- Qual Device AM26LV31EIPWR is qualified at MSL1 260C
- Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable
- The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours
- The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours
- The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2205-044

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>SN65LBC172A16DWR</u> | QBS Reference (Package): <u>TSS721AD</u> | QBS Reference (Product, Package): <u>SN65LBC175DWR</u> | QBS Reference (Product): <u>SN65LBC172ADWR</u> |
|------|----|-----------------------------|--------------------------------|-------------|---|---|---|--|
| тс | A4 | Temperature Cycle | -65C/150C | 500 Cycles | - | 3/231/0 | - | - |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | - | 1/76/0 | 1/76/0 |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | - | 1/76/0 | 1/76/0 |
| ESD | E2 | ESD CDM | - | 1000 Volts | 1/3/0 | - | - | 1/3/0 |
| ESD | E2 | ESD HBM (Bus Pins) | - | 12000 Volts | - | - | - | 1/3/0 |
| ESD | E2 | ESD HBM | - | 5000 Volts | - | - | - | 1/3/0 |
| LU | E4 | Latch-Up | Per JESD78 | - | - | - | - | 1/3/0 |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | - | - | 1/30/0 |

QBS: Qual By Similarity

Qual Device SN65LBC172A16DWR is qualified at MSL1 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

• The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

• The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

• The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

Quality and Environmental data is available at TI's external Web site: http://www.ti.com/

TI Qualification ID: R-CHG-2205-048

Qualification Results

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

| Туре | # | Test Name | Condition | Duration | Qual Device: <u>AM26LV31EIDR</u> | QBS Reference: <u>TLV9062ID</u> | QBS Reference: <u>TCA9546ADR</u> | QBS Reference: <u>TL494IDR</u> |
|-------|----|-------------------------------|--|-------------|-------------------------------------|---------------------------------------|--|--------------------------------------|
| HAST | A2 | Biased HAST | 130C/85%RH | 96 Hours | - | 3/231/0 | - | 3/231/0 |
| UHAST | A3 | Autoclave | 121C/15psig | 96 Hours | - | - | 3/231/0 | - |
| UHAST | A3 | Unbiased HAST | 130C | 96 Hours | - | 3/231/0 | - | - |
| TC | A4 | Temperature Cycle | -65/150C | 500 Cycles | - | 3/231/0 | 3/231/0 | - |
| HTSL | A6 | High Temperature Storage Life | 170C | 420 Hours | - | 3/231/0 | 3/231/0 | - |
| HTOL | B1 | Life Test | 150C | 300 Hours | - | 3/231/0 | - | - |
| ELFR | B2 | Early Life Failure Rate | 125C | 48 Hours | - | 3/2400/1 ¹ | - | - |
| WBS | C1 | Ball Shear | 76 balls, 3 units min | Wires | 1/76/0 | - | - | - |
| WBP | C2 | Bond Pull | 76 Wires, 3 units min | Wires | 1/76/0 | - | - | - |
| SD | C3 | PB-Free Solderability | 8 Hours Steam Age | - | - | - | 3/66/0 | - |
| SD | C3 | PB-Free Solderability | Precondition w.155C Dry Bake (4 hrs +/- 15 minutes); PB-Free Solder; | - | - | 3/66/0 | - | - |
| ESD | E2 | ESD CDM | - | 1000 Volts | 1/3/0 | - | - | - |
| ESD | E2 | ESD CDM | - | 250 Volts | - | 3/9/0 | - | - |
| ESD | E2 | ESD HBM | - | 1000 Volts | - | 3/9/0 | - | - |
| ESD | E2 | ESD HBM | - | 15000 Volts | 1/3/0 | - | - | - |
| ESD | E2 | ESD HBM | - | 2000 Volts | 1/3/0 | - | - | - |
| LU | E4 | Latch-Up | Per JESD78 | - | 1/3/0 | 3/18/0 | - | - |
| CHAR | E5 | Electrical Characterization | Min, Typ, Max Temp | - | 1/30/0 | 3/90/0 | - | - |
| CHAR | E5 | Electrical Characterization | Per Datasheet Parameters | - | 1/30/0 | 3/90/0 | - | - |

· QBS: Qual By Similarity

Qual Device AM26LV31EIDR is qualified at MSL1 260C

Preconditioning was performed for Autoclave, Unbiased HAST, THB/Biased HAST, Temperature Cycle, Thermal Shock, and HTSL, as applicable

The following are equivalent HTOL options based on an activation energy of 0.7eV : 125C/1k Hours, 140C/480 Hours, 150C/300 Hours, and 155C/240 Hours

The following are equivalent HTSL options based on an activation energy of 0.7eV : 150C/1k Hours, and 170C/420 Hours

The following are equivalent Temp Cycle options per JESD47 : -55C/125C/700 Cycles and -65C/150C/500 Cycles

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

TI Qualification ID: R-CHG-2205-047

[1]-Die EOS 1 unit – discounted

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