



**12500 TI Boulevard, MS 8640, Dallas, Texas 75243**

**PCN# 20170316001**  
**Transfer of select SLM devices from GFAB to FFAB Wafer Fab site**  
**Change Notification / Sample Request**

**Date:** March 22, 2017  
**To:** TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

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.

We request you acknowledge receipt of this notification within **30** days of the date of this notice. Lack of acknowledgement of this notice within 30 days constitutes acceptance of the change. If you require samples or additional data to support your evaluation, please request within 30 days.

The changes discussed within this PCN will not take effect any earlier than **90** days from the date of this notification, unless customer agreement has been reached on an earlier implementation of the change. This notification period is per TI's standard process.

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, contact your local Field Sales Representative or the PCN Manager ([PCN\\_ww\\_admin\\_team@list.ti.com](mailto:PCN_ww_admin_team@list.ti.com)).

PCN Team  
SC Business Services

**20170316001**  
**Attachment: 1**

**Products Affected:**

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

| <b>DEVICE</b>       | <b>CUSTOMER PART NUMBER</b> |
|---------------------|-----------------------------|
| LM2574M-12/NOPB     | null                        |
| LM2574N-5.0/NOPB    | null                        |
| LM2575SX-5.0/NOPB   | null                        |
| LM2575T-5.0/NOPB    | null                        |
| LM2576HVT-12/LF03   | null                        |
| LM2576S-ADJ/NOPB    | null                        |
| LM2576T-5.0/LF03    | null                        |
| LM2575HVSX-ADJ/NOPB | null                        |
| LM2575HVT-15/LF03   | null                        |
| LM2576HVSX-5.0/NOPB | null                        |
| LM2576HVSX-ADJ/NOPB | null                        |
| LM2576T-15/LF03     | null                        |
| LM2576HVS-5.0/NOPB  | null                        |
| LM2576HVT-ADJ/LF03  | null                        |
| LM2576T-ADJ/LF03    | null                        |
| LM2576HVT-ADJ/NOPB  | null                        |
| LM2576SX-ADJ/NOPB   | null                        |
| LM2576T-ADJ/NOPB    | null                        |
| LM2576T-12/LF03     | null                        |
| LM2576S-12/NOPB     | null                        |
| LM2575HVS-5.0/NOPB  | null                        |
| LM2575HVT-ADJ/LF03  | null                        |
| LM2575SX-ADJ/NOPB   | null                        |

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

| <b>PCN Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20170316001                                                     |                                                   | <b>PCN Date:</b>                      | Mar 22, 2017                     |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------|---------------------------------------|----------------------------------|----------------|-------------------|-----------------------------|------------------------------|----------------|----------|-----|------------------|----------|----------------|--------------|---------|----------------|-------|-----|--------|------|-----|--------|-------|-----|--------|------|-----|--------|
| <b>Title:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Transfer of select SLM devices from GFAB to FFAB Wafer Fab site |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Customer Contact:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <a href="#">PCN Manager</a>                                     |                                                   | <b>Dept:</b>                          | Quality Services                 |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Proposed 1<sup>st</sup> Ship Date:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Jun 22, 2017                                                    |                                                   | <b>Estimated Sample Availability:</b> | Date provided at sample request. |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Change Type:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <input type="checkbox"/> Assembly Site                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/> Assembly Process                       | <input type="checkbox"/> Assembly Materials       |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <input type="checkbox"/> Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Electrical Specification               | <input type="checkbox"/> Mechanical Specification |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <input type="checkbox"/> Test Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Packing/Shipping/Labeling              | <input type="checkbox"/> Test Process             |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <input type="checkbox"/> Wafer Bump Site                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <input type="checkbox"/> Wafer Bump Material                    | <input type="checkbox"/> Wafer Bump Process       |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <input checked="" type="checkbox"/> Wafer Fab Site                                                                                                                                                                                                                                                                                                                                                                                                                                                | <input type="checkbox"/> Wafer Fab Materials                    | <input type="checkbox"/> Wafer Fab Process        |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <input type="checkbox"/> Part number change                     |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>PCN Details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Description of Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| This change notification is to announce the transfer of select SLM devices from GFAB to the FFAB Wafer Fab site for the selected devices listed in the "Product Affected" section.                                                                                                                                                                                                                                                                                                                |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <table border="1"> <thead> <tr> <th colspan="3">Current Fab Site</th> <th colspan="3">New Fab Site</th> </tr> <tr> <th>Current Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> <th>New Fab Site</th> <th>Process</th> <th>Wafer Diameter</th> </tr> </thead> <tbody> <tr> <td>GFAB6</td> <td>SLM</td> <td>150 mm</td> <td>FFAB</td> <td>SLM</td> <td>200 mm</td> </tr> <tr> <td>GFAB8</td> <td>SLM</td> <td>200 mm</td> <td>FFAB</td> <td>SLM</td> <td>200 mm</td> </tr> </tbody> </table> |                                                                 |                                                   |                                       |                                  |                | Current Fab Site  |                             |                              | New Fab Site   |          |     | Current Fab Site | Process  | Wafer Diameter | New Fab Site | Process | Wafer Diameter | GFAB6 | SLM | 150 mm | FFAB | SLM | 200 mm | GFAB8 | SLM | 200 mm | FFAB | SLM | 200 mm |
| Current Fab Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                 |                                                   | New Fab Site                          |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| Current Fab Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Process                                                         | Wafer Diameter                                    | New Fab Site                          | Process                          | Wafer Diameter |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| GFAB6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SLM                                                             | 150 mm                                            | FFAB                                  | SLM                              | 200 mm         |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| GFAB8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SLM                                                             | 200 mm                                            | FFAB                                  | SLM                              | 200 mm         |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| Qual details are provided in the Qual Data Section.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Reason for Change:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| GFAB closure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Anticipated impact on Form, Fit, Function, Quality or Reliability (positive / negative):</b>                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Changes to product identification resulting from this PCN:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Current:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <table border="1"> <thead> <tr> <th>Current Chip Site</th> <th>Chip Site Origin Code (20L)</th> <th>Chip Site Country Code (21L)</th> <th>Chip Site City</th> </tr> </thead> <tbody> <tr> <td>GFAB6</td> <td>GF6</td> <td>GBR</td> <td>Greenock</td> </tr> <tr> <td>GFAB8</td> <td>GF8</td> <td>GBR</td> <td>Greenock</td> </tr> </tbody> </table>                                                                                                                                                |                                                                 |                                                   |                                       |                                  |                | Current Chip Site | Chip Site Origin Code (20L) | Chip Site Country Code (21L) | Chip Site City | GFAB6    | GF6 | GBR              | Greenock | GFAB8          | GF8          | GBR     | Greenock       |       |     |        |      |     |        |       |     |        |      |     |        |
| Current Chip Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Chip Site Origin Code (20L)                                     | Chip Site Country Code (21L)                      | Chip Site City                        |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| GFAB6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GF6                                                             | GBR                                               | Greenock                              |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| GFAB8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | GF8                                                             | GBR                                               | Greenock                              |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>New Fab Site:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
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| New Chip Site                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chip Site Origin Code (20L)                                     | Chip Site Country Code (21L)                      | Chip Site City                        |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| FR-BIP-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | TID                                                             | DEU                                               | Freising                              |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| Sample product shipping label (not actual product label)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| <b>Product Affected:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                 |                                                   |                                       |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| LM2574HVM-12/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LM2575HVS-5.0/NOPB                                              | LM2575S-5.0/NOPB                                  | LM2576HVT-12                          |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| LM2574HVM-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LM2575HVS-ADJ                                                   | LM2575S-ADJ                                       | LM2576HVT-12/LF03                     |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |
| LM2574HVM-15/NOPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LM2575HVS-ADJ/J7001488                                          | LM2575S-ADJ/NOPB                                  | LM2576HVT-12/NOPB                     |                                  |                |                   |                             |                              |                |          |     |                  |          |                |              |         |                |       |     |        |      |     |        |       |     |        |      |     |        |

|                        |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| LM2574HVM-3.3/NOPB     | LM2575HVS-ADJ/J7003077  | LM2575SX-12/NOPB        | LM2576HVT-15/LB03     |
| LM2574HVM-5.0          | LM2575HVS-ADJ/NOPB      | LM2575SX-15/NOPB        | LM2576HVT-15/LF03     |
| LM2574HVM-5.0/NOPB     | LM2575HVSX-15/NOPB      | LM2575SX-3.3/NOPB       | LM2576HVT-15/NOPB     |
| LM2574HVM-ADJ          | LM2575HVSX-3.3/NOPB     | LM2575SX-5.0            | LM2576HVT-5.0         |
| LM2574HVM-ADJ/NOPB     | LM2575HVSX-5.0          | LM2575SX-5.0/E7001840   | LM2576HVT-5.0/LB03    |
| LM2574HVMX-12/NOPB     | LM2575HVSX-5.0/ELLI927  | LM2575SX-5.0/NOPB       | LM2576HVT-5.0/LF02    |
| LM2574HVMX-12/SL163175 | LM2575HVSX-5.0/NOPB     | LM2575SX-ADJ            | LM2576HVT-5.0/LF03    |
| LM2574HVMX-15/NOPB     | LM2575HVSX-ADJ          | LM2575SX-ADJ/NOPB       | LM2576HVT-5.0/NOPB    |
| LM2574HVMX-3.3/NOPB    | LM2575HVSX-ADJ/E5000816 | LM2575T-12              | LM2576HVT-ADJ         |
| LM2574HVMX-5.0         | LM2575HVSX-ADJ/NOPB     | LM2575T-12/LB03         | LM2576HVT-ADJ/LB03    |
| LM2574HVMX-5.0/ELLI947 | LM2575HVT-12            | LM2575T-12/LF03         | LM2576HVT-ADJ/LF03    |
| LM2574HVMX-5.0/NOPB    | LM2575HVT-12/LB03       | LM2575T-12/NOPB         | LM2576HVT-ADJ/NOPB    |
| LM2574HVMX-ADJ/NOPB    | LM2575HVT-12/LF03       | LM2575T-15              | LM2576S-12            |
| LM2574HVN-12/NOPB      | LM2575HVT-12/NOPB       | LM2575T-15/LF03         | LM2576S-12/NOPB       |
| LM2574HVN-15/NOPB      | LM2575HVT-15            | LM2575T-15/NOPB         | LM2576S-3.3/NOPB      |
| LM2574HVN-5.0/NOPB     | LM2575HVT-15/LB03       | LM2575T-3.3/LF03        | LM2576S-5.0           |
| LM2574HVN-ADJ/NOPB     | LM2575HVT-15/LF03       | LM2575T-3.3/NOPB        | LM2576S-5.0/NOPB      |
| LM2574M-12             | LM2575HVT-15/NOPB       | LM2575T-5.0             | LM2576S-ADJ/NOPB      |
| LM2574M-12/NOPB        | LM2575HVT-3.3/LF03      | LM2575T-5.0/LB03        | LM2576SX-3.3/E7001841 |
| LM2574M-3.3/NOPB       | LM2575HVT-3.3/NOPB      | LM2575T-5.0/LF03        | LM2576SX-3.3/NOPB     |
| LM2574M-5.0            | LM2575HVT-5.0           | LM2575T-5.0/NOPB        | LM2576SX-5.0/J7001717 |
| LM2574M-5.0/NOPB       | LM2575HVT-5.0/ELLI859   | LM2575T-ADJ             | LM2576SX-5.0/NOPB     |
| LM2574M-ADJ            | LM2575HVT-5.0/LB03      | LM2575T-ADJ/LB03        | LM2576SX-ADJ/NOPB     |
| LM2574M-ADJ/NOPB       | LM2575HVT-5.0/LF03      | LM2575T-ADJ/LF02        | LM2576T-12            |
| LM2574MX-12/NOPB       | LM2575HVT-5.0/NOPB      | LM2575T-ADJ/LF03        | LM2576T-12/LB03       |
| LM2574MX-3.3/NOPB      | LM2575HVT-ADJ           | LM2575T-ADJ/NOPB        | LM2576T-12/LF03       |
| LM2574MX-5.0           | LM2575HVT-ADJ/J7002108  | LM2576HVS-12            | LM2576T-12/NOPB       |
| LM2574MX-5.0/NOPB      | LM2575HVT-ADJ/LB03      | LM2576HVS-12/NOPB       | LM2576T-15/LF03       |
| LM2574MX-ADJ           | LM2575HVT-ADJ/LF03      | LM2576HVS-3.3           | LM2576T-15/NOPB       |
| LM2574MX-ADJ/NOPB      | LM2575HVT-ADJ/NOPB      | LM2576HVS-3.3/NOPB      | LM2576T-3.3/LF03      |
| LM2574N-12/NOPB        | LM2575M-5.0             | LM2576HVS-5.0           | LM2576T-3.3/NOPB      |
| LM2574N-3.3/NOPB       | LM2575M-5.0/NOPB        | LM2576HVS-5.0/NOPB      | LM2576T-5.0           |
| LM2574N-5.0/NOPB       | LM2575M-ADJ/NOPB        | LM2576HVS-ADJ           | LM2576T-5.0/LB03      |
| LM2574N-ADJ/NOPB       | LM2575MX-5.0/NOPB       | LM2576HVS-ADJ/NOPB      | LM2576T-5.0/LF02      |
| LM2575HVMX-5.0/NOPB    | LM2575MX-ADJ/NOPB       | LM2576HVSX-12           | LM2576T-5.0/LF03      |
| LM2575HVN-5.0/NOPB     | LM2575N-5.0/NOPB        | LM2576HVSX-12/NOPB      | LM2576T-5.0/NOPB      |
| LM2575HVN-ADJ/NOPB     | LM2575N-ADJ/NOPB        | LM2576HVSX-3.3/NOPB     | LM2576T-ADJ           |
| LM2575HVS-12           | LM2575S-12/NOPB         | LM2576HVSX-5.0          | LM2576T-ADJ/LB03      |
| LM2575HVS-12/NOPB      | LM2575S-15/NOPB         | LM2576HVSX-5.0/NOPB     | LM2576T-ADJ/LF02      |
| LM2575HVS-15           | LM2575S-3.3             | LM2576HVSX-ADJ          | LM2576T-ADJ/LF03      |
| LM2575HVS-15/NOPB      | LM2575S-3.3/NOPB        | LM2576HVSX-ADJ/E5001494 | LM2576T-ADJ/NOPB      |
| LM2575HVS-3.3/NOPB     | LM2575S-5.0             | LM2576HVSX-ADJ/NOPB     | LM2576T-ADJ/S5001479  |
| LM2575HVS-5.0          |                         |                         |                       |

**Automotive New Process Qualification Summary**  
(As per AEC-Q100 and JEDEC Guidelines)

**New process qualification in FFAB on SLM Core process - LM2576HVT-5.0/NOPB (Automotive Grade 1)**  
**Approved 07-Mar-2017**  
**Product Attributes**

| Attributes         | Qual Device:<br>LM2576HVT-5.0/NOPB |
|--------------------|------------------------------------|
| Assembly Site      | TIEM-AT                            |
| Package Family     | TO-220                             |
| Wafer Fab Supplier | FFAB                               |
| Wafer Fab Process  | SLM                                |

- QBS: Qual By Similarity

- Qual Device LM2576HVT-5.0/NOPB-QL is qualified at LEVEL1-NACG

**Qualification Results**

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

| Type                                                        | #  | Test Spec                        | Min Lot Qty | SS/Lot | Test Name / Condition         | Duration    | Qual Device:<br>LM2576HVT-5.0/NOPB |
|-------------------------------------------------------------|----|----------------------------------|-------------|--------|-------------------------------|-------------|------------------------------------|
| <b>Test Group A – Accelerated Environment Stress Tests</b>  |    |                                  |             |        |                               |             |                                    |
| HAST                                                        | A2 | JEDEC JESD22-A110                | 3           | 77     | Biased HAST, 130C/85%RH       | 96 Hours    | 3/231/0                            |
| AC                                                          | A3 | JEDEC JESD22-A102                | 3           | 77     | Autoclave 121C                | 96 Hours    | 3/231/0                            |
| TC                                                          | A4 | JEDEC JESD22-A104 and Appendix 3 | 3           | 77     | Temperature Cycle, -55/150C   | 1000 Cycles | 3/231/0                            |
| TC-BP                                                       | A4 | MIL-STD883 Method 2011           | 1           | 30     | Post Temp. Cycle Bond Pull    | Wires       | 3/30/0                             |
| PTC                                                         | A5 | JEDEC JESD22-A105                | 1           | 45     | Power Temperature Cycle       | 1000 Cycles | N/A                                |
| HTSL                                                        | A6 | JEDEC JESD22-A103                | 1           | 45     | High Temp Storage Bake 150C   | 1000 Hours  | 3/231/0                            |
| <b>Test Group B – Accelerated Lifetime Simulation Tests</b> |    |                                  |             |        |                               |             |                                    |
| HTOL                                                        | B1 | JEDEC JESD22-A108                | 3           | 77     | Life Test, 125C               | 1000 Hours  | 3/231/0                            |
| ELFR                                                        | B2 | AEC Q100-008                     | 3           | 800    | Early Life Failure Rate, 125C | 48 Hours    | 3/2400/0                           |

| Type                                                    | #  | Test Spec                  | Min Lot Qty | SS/Lot | Test Name / Condition                               | Duration           | Qual Device:<br>LM2576HVT-5.0/NOPB |
|---------------------------------------------------------|----|----------------------------|-------------|--------|-----------------------------------------------------|--------------------|------------------------------------|
| EDR                                                     | B3 | AEC Q100-005               | 3           | 77     | NVM Endurance, Data Retention, and Operational Life | -                  | N/A                                |
| <b>Test Group C – Package Assembly Integrity Tests</b>  |    |                            |             |        |                                                     |                    |                                    |
| WBS                                                     | C1 | AEC Q100-001               | 1           | 30     | Wire Bond Shear (Cpk>1.67)                          | Wires              | 1/30/0                             |
| WBP                                                     | C2 | MIL-STD883 Method 2011     | 1           | 30     | Wire Bond Pull (Cpk>1.67)                           | Wires              | 1/30/0                             |
| SD                                                      | C3 | JEDEC JESD22-B102          | 1           | 15     | Surface Mount Solderability >95% Lead Coverage      | Pb Free            | 1/15/0                             |
| SD                                                      | C3 | JEDEC JESD22-B102          | 1           | 15     | Surface Mount Solderability >95% Lead Coverage      | Pb                 | 1/15/0                             |
| PD                                                      | C4 | JEDEC JESD22-B100 and B108 | 3           | 10     | Physical Dimensions (Cpk>1.67)                      | -                  | 3/30/0                             |
| <b>Test Group D – Die Fabrication Reliability Tests</b> |    |                            |             |        |                                                     |                    |                                    |
| EM                                                      | D1 | JESD61                     | -           | -      | Electromigration                                    | -                  | -                                  |
| TDDb                                                    | D2 | JESD35                     | -           | -      | Time Dependent Dielectric Breakdown                 | -                  | -                                  |
| HCI                                                     | D3 | JESD60 & 28                | -           | -      | Hot Injection Carrier                               | -                  | -                                  |
| NBTI                                                    | D4 | -                          | -           | -      | Negative Bias Temperature Instability               | -                  | -                                  |
| SM                                                      | D5 | -                          | -           | -      | Stress Migration                                    | -                  | -                                  |
| <b>Test Group E – Electrical Verification Tests</b>     |    |                            |             |        |                                                     |                    |                                    |
| HBM                                                     | E2 | AEC Q100-002               | 1           | 3      | ESD - HBM                                           | 2500V              | 3/9/0                              |
| CDM                                                     | E3 | AEC Q100-011               | 1           | 3      | ESD - CDM                                           | 750V               | 3/9/0                              |
| LU                                                      | E4 | AEC Q100-004               | 1           | 6      | Latch-up                                            | (Per AEC-Q100-004) | 3/18/0                             |
| ED                                                      | E5 | AEC Q100-009               | 3           | 30     | Electrical Distributions                            | Cpk>1.67           | 3/90/0                             |

**Ambient Operating Temperature by Automotive Grade Level:**

Grade 0 (or E): -40°C to +150°C

Grade 1 (or Q): -40°C to +125°C

Grade 2 (or T): -40°C to +105°C

Grade 3 (or I): -40°C to +85°C

**E1 (TEST): Electrical test temperatures of Qual samples (High temperature according to Grade level):**

Room/Hot/Cold: HTOL, ED

Room/Hot: THB / HAST, TC / PTC, HTSL, ELFR, ESD &amp; LU

Room: AC/uHAST

**Green/Pb-free Status:**

Qualified Pb-Free (SMT) and Green

For questions regarding this notice, e-mails can be sent to the regional contacts shown below, or you can contact your local Field Sales Representative.

| <b>Location</b> | <b>E-Mail</b>                                                                      |
|-----------------|------------------------------------------------------------------------------------|
| USA             | <a href="mailto:PCNAmericasContact@list.ti.com">PCNAmericasContact@list.ti.com</a> |
| Europe          | <a href="mailto:PCNEuropeContact@list.ti.com">PCNEuropeContact@list.ti.com</a>     |
| Asia Pacific    | <a href="mailto:PCNAsiaContact@list.ti.com">PCNAsiaContact@list.ti.com</a>         |
| Japan           | <a href="mailto:PCNJapanContact@list.ti.com">PCNJapanContact@list.ti.com</a>       |