

|                          |                             |                                     |                     |
|--------------------------|-----------------------------|-------------------------------------|---------------------|
| <b>PCN Number:</b>       | 20170616008                 | <b>PCN Date:</b>                    | June 27, 2017       |
| <b>Title:</b>            | Datasheet for TCAN1051x     |                                     |                     |
| <b>Customer Contact:</b> | <a href="#">PCN Manager</a> | <b>Dept:</b>                        | Quality Services    |
| <b>Change Type:</b>      |                             |                                     |                     |
| <input type="checkbox"/> | Assembly Site               | <input type="checkbox"/>            | Design              |
| <input type="checkbox"/> | Assembly Process            | <input checked="" type="checkbox"/> | Data Sheet          |
| <input type="checkbox"/> | Assembly Materials          | <input type="checkbox"/>            | Part number change  |
| <input type="checkbox"/> | Mechanical Specification    | <input type="checkbox"/>            | Test Site           |
| <input type="checkbox"/> | Packing/Shipping/Labeling   | <input type="checkbox"/>            | Test Process        |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Bump Site     |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Bump Material |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Bump Process  |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Fab Site      |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Fab Materials |
| <input type="checkbox"/> |                             | <input type="checkbox"/>            | Wafer Fab Process   |

### Notification Details

#### Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



**TCAN1051-Q1, TCAN1051V-Q1, TCAN1051H-Q1  
TCAN1051HV-Q1, TCAN1051G-Q1, TCAN1051GV-Q1  
TCAN1051HG-Q1, TCAN1051HGV-Q1**

SLLSET0C –OCTOBER 2016–REVISED MAY 2017

| Changes from Revision B (May 2016) to Revision C   | Page |
|--|------|
| • Added items to the Automotive Applications <i>Feaure</i> .....   | 1    |
| • Deleted Feature "Meets the December 17th, 2015 Draft of ISO 11898-2 Physical Layer Update".....  | 1    |
| • Changed <i>Feature</i> From: "Meets the Released ISO 11898-2:2007 and ISO 11898-2:2003 Physical Layer Standards" To: "Meets the ISO 11898-2:2016 and ISO 11898-5:2007 Physical Layer Standards"..... | 1    |
| • Changed Feature From: "All devices support 2 Mbps CAN FD.." To: "All Devices Support Classic CAN and 2 Mbps CAN FD..".....   | 1    |
| • Added <i>Feature</i> "Available in SOIC(8) package and leadless VSON(8) package...".....   | 1    |
| • Changed <i>Applications</i> From: Heavy Machinery ISO11783 To: Heavy Machinery ISOBUS Applications – ISO 11783.....  | 1    |
| • Changed the <i>Functional Block Diagram</i> , removed the Dominant time-out box.....   | 1    |
| • Changed "D Package for (HV) and (HGV)" To: "DRB Package for (HV) and (HGV)".....   | 4    |
| • Added Storage temperature range to the <i>Absolute Maximum Ratings</i> table.....  | 5    |
| • Changed the <i>ESD Ratings</i> table to show the D(SOIC) and DRB (VSON) values.....  | 5    |
| • Changed Human Body Model (HBM) From: $\pm 10000$ To: $\pm 16000$ in the <i>ESD</i> table.....  | 5    |
| • Changed Charged Device Model (CDM) From: $\pm 750$ To: $\pm 1500$ in the <i>ESD</i> table.....   | 5    |
| • Changed TBD to values for the DRB (VSON) Package in the <i>ESD</i> table.....  | 5    |
| • Added the <i>Power Rating</i> table.....   | 7    |
| • Changed $V_{SYM}$ in the <i>DRIVER ELECTRICAL CHARACTERISTICS</i> table.....   | 9    |
| • Changed $V_{SYM\_DC}$ in the <i>DRIVER ELECTRICAL CHARACTERISTICS</i> table.....   | 9    |
| • Deleted " $V_I = 0.4 \sin(4E6 \pi t) + 2.5 V$ " from the Test Condition of $C_I$ in the <i>RECEIVER ELECTRICAL CHARACTERISTICS</i> table.....  | 10   |
| • Deleted " $V_I = 0.4 \sin(4E6 \pi t)$ " from the Test Condition of $C_{ID}$ in the <i>RECEIVER ELECTRICAL CHARACTERISTICS</i> table.....   | 10   |
| • Added " $-30 V \leq V_{CM} \leq +30$ " to the Test Condition of $R_{ID}$ and $R_{IN}$ in the <i>RECEIVER ELECTRICAL CHARACTERISTICS</i> table.....   | 10   |
| • Changed the <i>Functional Block Diagram</i> , removed the Dominant time-out box.....   | 16   |
| • Changed <i>Table 3</i> , BUS OUTPUT colum.....   | 18   |

The datasheet number will be changing.

|               |              |                 |
|---------------|--------------|-----------------|
| Device Family | Change From: | Change To:      |
| TCAN1051x     | SLLSET0B     | <b>SLLSET0C</b> |

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TCAN1051-Q1>

#### Reason for Change:

To accurately reflect device characteristics.

|   |                  |                   |                  |
|---|------------------|-------------------|------------------|
| <b>Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):</b>                     |                  |                   |                  |
| No anticipated impact. This is a specification change announcement only. There are no changes to the actual device. |                  |                   |                  |
| <b>Changes to product identification resulting from this PCN:</b>   |                  |                   |                  |
| None.   |                  |                   |                  |
| <b>Product Affected:</b>  |                  |                   |                  |
| TCAN1051DQ1   | TCAN1051GVDQ1    | TCAN1051HGDQ1     | TCAN1051HVDQ1    |
| TCAN1051DRBRQ1  | TCAN1051GVDRBRQ1 | TCAN1051HGDRBRQ1  | TCAN1051HVDRBRQ1 |
| TCAN1051DRBTQ1  | TCAN1051GVDRBTQ1 | TCAN1051HGDRBTQ1  | TCAN1051HVDRBTQ1 |
| TCAN1051DRQ1  | TCAN1051GVDRQ1   | TCAN1051HGDRQ1    | TCAN1051HVDRQ1   |
| TCAN1051GDQ1  | TCAN1051HDQ1     | TCAN1051HGVDQ1    | TCAN1051VDQ1     |
| TCAN1051GDRBRQ1   | TCAN1051HDRBRQ1  | TCAN1051HGVDRBRQ1 | TCAN1051VDRBRQ1  |
| TCAN1051GDRBTQ1   | TCAN1051HDRBTQ1  | TCAN1051HGVDRTQ1  | TCAN1051VDRBTQ1  |
| TCAN1051GDRQ1   | TCAN1051HDRQ1    | TCAN1051HGVDQ1    | TCAN1051VDRQ1    |

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or 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>         |
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