

PCN Number:	20181216002	PCN Date:	Dec. 21, 2018
Title:	Datasheet for TCAN1042*-Q1		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<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.



TCAN1042-Q1, TCAN1042V-Q1, TCAN1042H-Q1
 TCAN1042HV-Q1, TCAN1042G-Q1, TCAN1042GV-Q1
 TCAN1042HG-Q1, TCAN1042HGV-Q1
 SLLSES9B – FEBRUARY 2016 – REVISED MAY 2017

Changes from Revision A (May 2016) to Revision B	Page
• Added items to the Automotive Applications <i>Feaure</i>	1
• Changed <i>Feature</i> "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
• Deleted <i>Feature</i> From: Meets the December 17th, 2015 Draft of ISO 11898-2 Physical Layer Update.....	1
• Changed <i>Feature</i> 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 the <i>Applications</i> list.....	1
• Changed <i>Feature</i> From: "EMC: SAE J2962, GIFT/ICT, ISO 16845" To: "Meets requirements of SAE J2962, GIFT/ICT, ISO16845".....	1
• Added new devices to the <i>Device Comparison Table</i>	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 Charged Device Model (CDM) From: ± 750 To: ± 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 DRB package to the <i>Thermal Information</i> table.....	7
• 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 t_{MODE} TYP value From: $1 \mu s$ To: $9 \mu s$ in the <i>DEVICE SWITCHING CHARACTERISTICS</i> table.....	11
• Added Note 2 and Changed Table 3 , BUS OUTPUT colum.....	18
• Changed <i>Standby Mode section</i>	21

Changes from Original (March 2016) to Revision A	Page
• Added <i>Features</i> "Meets the Released ISO 11898-2:2007 and ISO 11898-2:2003 Physical Layer Standards"	1
• Changed <i>Feature</i> From: Meets the Requirements of ISO11898-2 (2016) To: Meets the December 17th, 2015 Draft of ISO 11898-2 Physical Layer Update	1
• Changed the <i>Applications</i> list	1
• Added the VSON (8) pin package to the <i>Device Information</i> table	1
• Added the VSON (8) pin package to the <i>Pin Configurations and Functions</i>	4
• Added $V_{(DM)}$ to the <i>Absolute Maximum Ratings</i> ^{(1) (2)} table	5
• Changed OTP to TSD in the <i>Functional Block Diagram</i>	16
• Added Note 2 to <i>Table 2</i>	18
• Added Note 1 to <i>Table 3</i>	18
• Added pin number to the <i>Layout Example</i> image	29

The datasheet number will be changing.

Device Family	Change From:	Change To:
TCAN1042*-Q1	SLLSES9	SLLSES9B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TCAN1042-Q1>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:

None.

Product Affected:

TCAN1042DQ1	TCAN1042GVDQ1	TCAN1042HGDQ1	TCAN1042HVDQ1
TCAN1042DRBQ1	TCAN1042GVDRBQ1	TCAN1042HGDRBQ1	TCAN1042HVDRBQ1
TCAN1042DRBRQ1	TCAN1042GVDRBRQ1	TCAN1042HGDRBRQ1	TCAN1042HVDRBRQ1
TCAN1042DRQ1	TCAN1042GVDRQ1	TCAN1042HGDRQ1	TCAN1042HVDRQ1
TCAN1042GDQ1	TCAN1042HDQ1	TCAN1042HGVDQ1	TCAN1042VDQ1
TCAN1042GDRBQ1	TCAN1042HDRBQ1	TCAN1042HGVD RBQ1	TCAN1042VDRBQ1
TCAN1042GDRBRQ1	TCAN1042HDRBRQ1	TCAN1042HGVD RBQ1	TCAN1042VDRBRQ1
TCAN1042GDRQ1	TCAN1042HDRQ1	TCAN1042HGVD RQ1	TCAN1042VDRQ1

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

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USA	PCNAmericasContact@list.ti.com
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Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com