| **PCN Number:** | 20231218002.0.A | | **PCN Date:** | December 21, 2023 |
|---|---|---|---|---|
| **Title:** | Datasheet for SN74AHCT1G32-Q1, SN74AHCT1G125, SN74AHCT1G04, SN74AHCT1G00, SN74AHCT1G86, SN74AHCT1G02, SN74AHCT1G126, SN74AHCT1G14, SN74AHCT1G08 | | | |
| **Customer Contact:** | Change Management team | **Dept:** | Quality Services | |
| **Change Type:** | Electrical Specification | | | |

## PCN 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.

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**TEXAS INSTRUMENTS**

**SN74AHCT1G32-Q1**
SCLS606D – MARCH 2005 – REVISED OCTOBER 2023

#### Changes from Revision C (November 2022) to Revision D (October 2023)　　　　　　Page

- Added *Applications* section, updated title, added package size to *Package Information* table, *Pin Functions* table, added *Application and Implementation* section, added *Thermal Information* table, added *Related Documentation* .................................................................................................................1
- Removed machine model from *ESD Ratings* table................................................................. 4
- Updated RθJA values: DCK = 252 to 289.2, all values in °C/W ............................................ 4

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**TEXAS INSTRUMENTS**

**SN74AHCT1G125**
SCLS378O – AUGUST 1997 – REVISED OCTOBER 2023

#### Changes from Revision N (January 2016) to Revision O (October 2023)　　　　　　Page

- Updated the numbering format for tables, figures, and cross-references throughout the document................. 1
- Updated thermal values for DCK package from RθJA = 287.6 to 289.2, RθJC(top) = 97.7 to 205.8, RθJB = 65 to 176.2, ΨJT = 2.0 to 117.6, ΨJB = 64.2 to 175.1, RθJC(bot) = N/A, all values in °C/W ................................5

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**TEXAS INSTRUMENTS**

**SN74AHCT1G04**
SCLS319Q – MARCH 1996 – REVISED OCTOBER 2023

#### Changes from Revision P (December 2014) to Revision Q (October 2023)　　　　　　Page

- Updated the numbering format for tables, figures, and cross-references throughout the document................. 1
- Updated thermal values for DCK package from RθJA = 287.6 to 289.2, RθJC(top) = 97.7 to 205.8, RθJB = 65 to 176.2, ΨJT = 2 to 117.6, ΨJB = 64.2 to 175.1, RθJC(bot) = N/A, all values in °C/W ..................................5

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**TEXAS INSTRUMENTS**

**SN74AHCT1G00**
SCLS316O – MARCH 1996 – REVISED OCTOBER 2023

#### Changes from Revision N (March 2015) to Revision O (October 2023)　　　　　　Page

- Added package size to *Package Information* table............................................................... 1
- Updated thermal values for DCK package from RθJA = 287.6 to 289.2, RθJC(top) = 97.7 to 205.8, RθJB = 65 to 176.2, ΨJT = 2 to 117.6, ΨJB = 64.2 to 175.1, RθJC(bot) = N/A, all values in °C/W ..................................5

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**Changes from Revision N (August 2022) to Revision O (October 2023)** **Page**

- Updated thermal values for DCK package from $R_{\theta JA}$ = 287.6 to 289.2, $R_{\theta JC(top)}$ = 97.7 to 205.8, $R_{\theta JB}$ = 65 to 176.2, $\Psi_{JT}$ = 2 to 117.6, $\Psi_{JB}$ = 64.2 to 175.1, $R_{\theta JC(bot)}$ = N/A, all values in °C/W ................................... 5

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**Changes from Revision K (February 2003) to Revision L (October 2023)** **Page**

- Added *Applications* section, *Package Information* table, *Pin Functions* table, *ESD Ratings* table, *Thermal Information* table, *Device Functional Modes*, *Application and Implementation* section, *Device and Documentation Support* section, and *Mechanical, Packaging, and Orderable Information* section .................. 1
- Updated thermal values for DCK package from $R_{\theta JA}$ = 252 to 289.2, all values in °C/W.................................. 4

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**Changes from Revision J (December 2014) to Revision K (October 2023)** **Page**

- Updated thermal values for DCK package from $R_{\theta JA}$ = 287.6 to 289.2, $R_{\theta JC(top)}$ = 97.7 to 205.8, $R_{\theta JB}$ = 65 to 176.2, $\Psi_{JT}$ = 2 to 117.6, $\Psi_{JB}$ = 64.2 to 175.1, $R_{\theta JC(bot)}$ = N/A, all values in °C/W ................................... 5

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**Changes from Revision P (June 2013) to Revision Q (October 2023)** **Page**

- Added *Applications*, *Package Information* table, *Pin Functions* table, *Thermal Information* table, *Device Functional Modes*, *Device and Documentation Support* section, *Application and Implementation* section, and *Mechanical, Packaging, and Orderable Information* section ............................................................................. 1
- Updated thermal values for DCK package from $R_{\theta JA}$ = 252 to 289.2, all values in °C/W ................................ 4

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**Changes from Revision Q (April 2016) to Revision R (October 2023)** **Page**

- Updated the numbering format for tables, figures, and cross-references throughout the document................ 1
- Updated thermal values for DCK package from $R_{\theta JA}$ = 277.5 to 289.2, $R_{\theta JC(top)}$ = 92.9 to 205.8, $R_{\theta JB}$ = 64.2 to 176.2, $\Psi_{JT}$ = 1.9 to 117.6, $\Psi_{JB}$ = 63.5 to 175.1, $R_{\theta JC(bot)}$ = N/A, all values in °C/W .......................... 5

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The datasheet number will be changing.

| Device Family | Change From: | Change To: |
|---|---|---|
| SN74AHCT1G32-Q1 | SCLS606C | **SCLS606D** |
| SN74AHCT1G125 | SCLS378N | **SCLS378O** |
| SN74AHCT1G04 | SCLS319P | **SCLS319Q** |
| SN74AHCT1G00 | SCLS316N | **SCLS316O** |
| SN74AHCT1G86 | SCLS324N | **SCLS324O** |
| SN74AHCT1G02 | SCLS341K | **SCLS341L** |
| SN74AHCT1G126 | SCLS380J | **SCLS380K** |

| | | | |
|---|---|---|---|
| SN74AHCT1G14 | SCLS322P | **SCLS322Q** | |
| SN74AHCT1G08 | SCLS315Q | **SCLS315R** | |

These changes may be reviewed at the datasheet links provided.
http://www.ti.com/product/SN74AHCT1G32-Q1
http://www.ti.com/product/SN74AHCT1G125
http://www.ti.com/product/SN74AHCT1G04
http://www.ti.com/product/SN74AHCT1G00
http://www.ti.com/product/SN74AHCT1G86
http://www.ti.com/product/SN74AHCT1G02
http://www.ti.com/product/SN74AHCT1G126
http://www.ti.com/product/SN74AHCT1G14
http://www.ti.com/product/SN74AHCT1G08

**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:**

| | | | |
|---|---|---|---|
| 74AHCT1G00DCKRE4 | 74AHCT1G08DCKRG4 | CAHCT1G32QDCKRQ1 | SN74AHCT1G08DCKT |
| 74AHCT1G00DCKRG4 | 74AHCT1G08DCKTG4 | SN74AHCT1G00DCK3 | SN74AHCT1G125DCK3 |
| 74AHCT1G00DCKTG4 | 74AHCT1G125DCKRG4 | SN74AHCT1G00DCKR | SN74AHCT1G125DCKR |
| 74AHCT1G02DCKRE4 | 74AHCT1G125DCKTE4 | SN74AHCT1G02DCKR | SN74AHCT1G125DCKT |
| 74AHCT1G02DCKRG4 | 74AHCT1G125DCKTG4 | SN74AHCT1G04DCK3 | SN74AHCT1G126DCKR |
| 74AHCT1G04DCKRE4 | 74AHCT1G126DCKRG4 | SN74AHCT1G04DCKR | SN74AHCT1G14DCK3 |
| 74AHCT1G04DCKRG4 | 74AHCT1G126DCKTG4 | SN74AHCT1G04DCKT | SN74AHCT1G14DCKR |
| 74AHCT1G04DCKTG4 | 74AHCT1G14DCKTE4 | SN74AHCT1G08DCK3 | SN74AHCT1G14DCKRG4 |
| 74AHCT1G08DCKRE4 | 74AHCT1G14DCKTG4 | SN74AHCT1G08DCKR | SN74AHCT1G86DCKR |

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

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