



Notification# 20240922001.0.A

**Datasheet for SN74AHC1G00, SN74AHC1G08, SN74AHC1G04, SN74AHC1G14,
SN74AHC1G02, SN74AHC1G125, SN74AHC1G04-Q1, SN74AHC1G09, SN74AHC1G00-**

Q1

Information Only Datasheet

The PCN is being re-issued to include the change details for the DCK package devices.

Date: December 11, 2024
To: Mouser PCN

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this notification are for your information only.

Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the Change Management team.

Sincerely,

Change Management Team
SC Business Services

20240922001.0.A
Information Only Datasheet
Attachments

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
SN74AHC1G04QDCKRQ1	NULL
SN74AHC1G08DCKR	SN74AHC1G08DCKR
74AHC1G125DBVRG4	74AHC1G125DBVRG4
SN74AHC1G04DBVRG4	SN74AHC1G04DBVRG4
SN74AHC1G08QDBVRQ1	SN74AHC1G08QDBVRQ1
SN74AHC1G125DCKR	SN74AHC1G125DCKR
SN74AHC1G04DBVRE4	SN74AHC1G04DBVRG4
74AHC1G125DCKRG4	74AHC1G125DCKRG4
SN74AHC1G08DCKRG4	SN74AHC1G08DCKRG4
SN74AHC1G14DBVRG4	SN74AHC1G14DBVRG4
74AHC1G125DBVTG4	NULL
SN74AHC1G02DBVRE4	SN74AHC1G02DBVRG4
SN74AHC1G08DBVR	SN74AHC1G08DBVR
SN74AHC1G125DCK3	SN74AHC1G125DCK3
SN74AHC1G02DBVRG4	SN74AHC1G02DBVRG4
SN74AHC1G14DCK3	SN74AHC1G14DCK3
SN74AHC1G125DBVR	SN74AHC1G125DBVR
74AHC1G125DBVTE4	NULL
74AHC1G125DBVRE4	74AHC1G125DBVRG4
SN74AHC1G02DCKR	SN74AHC1G02DCKR
SN74AHC1G08DCK3	NULL
SN74AHC1G08DCKTG4	SN74AHC1G08DCKTG4
74AHC1G125DCKRE4	74AHC1G125DCKRG4
SN74AHC1G14DCKRG4	SN74AHC1G14DCKRG4
SN74AHC1G08DBV3	SN74AHC1G08DBV3
SN74AHC1G14DCKR	SN74AHC1G14DCKR
SN74AHC1G09DCKR	SN74AHC1G09DCKR
SN74AHC1G00QDCKRQ1	SN74AHC1G00QDCKRQ1
SN74AHC1G04DCK3	SN74AHC1G04DCK3
SN74AHC1G09DBVR	SN74AHC1G09DBVR
SN74AHC1G02DBVR	SN74AHC1G02DBVR
SN74AHC1G08DBVRG4	SN74AHC1G08DBVRG4
SN74AHC1G04DCKRE4	NULL
SN74AHC1G08DCKRE4	SN74AHC1G08DCKRG4
SN74AHC1G08DBVRE4	SN74AHC1G08DBVRG4
SN74AHC1G04DCKRG4	NULL
SN74AHC1G14DBVR	SN74AHC1G14DBVR
SN74AHC1G04DBVR	SN74AHC1G04DBVR
SN74AHC1G04DCKR	SN74AHC1G04DCKR

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

PCN Number:	20240922001.0.A	PCN Date:	December 11, 2024		
Title:	Datasheet for SN74AHC1G00, SN74AHC1G08, SN74AHC1G04, SN74AHC1G14, SN74AHC1G02, SN74AHC1G125, SN74AHC1G04-Q1, SN74AHC1G09, SN74AHC1G00-Q1				
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.					
 TEXAS INSTRUMENTS	SN74AHC1G00 SCLS313Q – MARCH 1996 – REVISED JANUARY 2024				
Changes from Revision P (October 2023) to Revision Q (January 2024)					
<ul style="list-style-type: none"> Updated thermal values for DBV package from R_{θJA} = 240 to 278, R_{θJC}(top) = 174.5 to 180.5, R_{θJB} = 73.7 to 184.4, Ψ_{JT} = 54.9 to 115.4, Ψ_{JB} = 60.1 to 183.4, R_{θJC}(bot) = N/A, all values in °C/W 	Page	5			
Changes from Revision O (April 2016) to Revision P (October 2023)					
<ul style="list-style-type: none"> Updated the numbering format for tables, figures, and cross-references throughout the document..... Updated thermal values for DCK package from R_{θJA} = 276.53 to 289.2, R_{θJC}(top) = 118.5 to 205.8, R_{θJB} = 62.8 to 176.2, Ψ_{JT} = 6.7 to 117.6, Ψ_{JB} = 62.1 to 175.1, R_{θJC}(bot) = N/A, all values in °C/W 	Page	1			
 TEXAS INSTRUMENTS	SN74AHC1G08 SCLS314R – MARCH 1996 – REVISED JANUARY 2024				
Changes from Revision Q (October 2023) to Revision R (January 2024)					
<ul style="list-style-type: none"> Updated R_{θJA} values: DBV = 206 to 278, all values in °C/W 	Page	5			
Changes from Revision P (March 2016) to Revision Q (October 2023)					
<ul style="list-style-type: none"> Updated the numbering format for tables, figures, and cross-references throughout the document..... Updated R_{θJA} values: DCK = 252 to 289.2, all values in °C/W 	Page	1			
 TEXAS INSTRUMENTS	SN74AHC1G04 SCLS318V – MARCH 1996 – REVISED FEBRUARY 2024				
Changes from Revision U (October 2023) to Revision V (February 2024)					
<ul style="list-style-type: none"> Updated thermal values for DBV package from R_{θJA} = 231.3 to 278, R_{θJC}(top) = 119.9 to 180.5, R_{θJB} = 60.6 to 184.4, Ψ_{JT} = 17.8 to 115.4, Ψ_{JB} = 60.1 to 183.4, R_{θJC}(bot) = N/A, all values in °C/W 	Page	5			
Changes from Revision T (January 2016) to Revision U (October 2023)					
<ul style="list-style-type: none"> Updated the numbering format for tables, figures, and cross-references throughout the document..... Updated thermal values for DCK package from R_{θJA} = 287.6 to 289.2, R_{θJC}(top) = 97.7 to 205.8, R_{θJB} = 65 to 176.2, Ψ_{JT} = 2 to 117.6, Ψ_{JB} = 64.2 to 175.1, R_{θJC}(bot) = N/A, all values in °C/W 	Page	1			

Changes from Revision R (October 2023) to Revision S (February 2024) **Page**

- Updated thermal values for DBV package from R_{θJA} = 225.7 to 278, R_{θJC}(top) = 160.3 to 180.5, R_{θJB} = 59.4 to 184.4, Ψ_{JT} = 41.0 to 115.4, Ψ_{JB} = 58.7 to 183.4, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision Q (February 2014) 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: R_{θJA} = 287.6 to 289.2, all values in °C/W 5
- Added thermal values for DCK package: R_{θJC}(top) = 205.8, R_{θJB} = 176.2, Ψ_{JT} = 117.6, Ψ_{JB} = 175.1, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision N (October 2023) to Revision O (February 2024) **Page**

- Updated thermal values for DBV package from R_{θJA} = 231.3 to 278, R_{θJC}(top) = 119.9 to 180.5, R_{θJB} = 60.6 to 184.4, Ψ_{JT} = 17.8 to 115.4, Ψ_{JB} = 60.1 to 183.4, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision M (August 2022) to Revision N (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_{θJA} = 287.6 to 289.2, R_{θJC}(top) = 97.7 to 205.8, R_{θJB} = 65 to 176.2, Ψ_{JT} = 2 to 117.6, Ψ_{JB} = 64.2 to 175.1, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision L (October 2023) to Revision M (February 2024) **Page**

- Updated thermal values for DBV package from R_{θJA} = 231.3 to 278, R_{θJC}(top) = 119.9 to 180.5, R_{θJB} = 60.6 to 184.4, Ψ_{JT} = 17.8 to 115.4, Ψ_{JB} = 60.1 to 183.4, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision K (December 2014) to Revision L (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_{θJA} = 287.6 to 289.2, R_{θJC}(top) = 97.7 to 205.8, R_{θJB} = 65 to 176.2, Ψ_{JT} = 2 to 117.6, Ψ_{JB} = 64.2 to 175.1, R_{θJC}(bot) = N/A, all values in °C/W 5

Changes from Revision C (October 2023) to Revision D (January 2024) **Page**

- Updated R_{θJA} values: DBV = 206 to 278, all values in °C/W..... 5

Changes from Revision B (July 2023) to Revision C (October 2023) **Page**

- Added *Applications* section..... 1
- Added package size to *Package Information* table..... 1
- Updated R_{θJA} values: DCK = 252 to 289.2, all values in °C/W 5
- Added *Application and Implementation* section..... 8

Changes from Revision E (October 2023) to Revision F (February 2024) **Page**

- Updated R_{θJA} values: DBV = 206 to 278, all values in °C/W.....5

Changes from Revision D (September 2016) to Revision E (October 2023) **Page**

- Updated the numbering format for tables, figures, and cross-references throughout the document.....1
- Updated R_{θJA} values: DCK = 252 to 289.2, all values in °C/W5

Changes from Revision B (February 2008) to Revision C (October 2023) **Page**

- Added *Applications, 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* section1
- Added DBV package to *Package Information* table1
- Added DBV package to *Pin Configuration and Functions* section.....3
- Added the thermal value for the DBV package: R_{θJA} = 278.0 °C/W. Updated the thermal value for the DCK package: R_{θJA} = 293.4 °C/W.5

The datasheet number will be changing.

Device Family	Change From:	Change To:
SN74AHC1G00	SCLS313O	SCLS313Q
SN74AHC1G08	SCLS314P	SCLS314R
SN74AHC1G04	SCLS318T	SCLS318V
SN74AHC1G14	SCLS321Q	SCLS321S
SN74AHC1G02	SCLS342M	SCLS342O
SN74AHC1G125	SCLS377K	SCLS377M
SN74AHC1G04-Q1	SCLS540B	SCLS540D
SN74AHC1G09	SCLS724D	SCLS724F
SN74AHC1G00-Q1	SLOS424B	SLOS424C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/SN74AHC1G00>

<http://www.ti.com/product/SN74AHC1G08>

<http://www.ti.com/product/SN74AHC1G04>

<http://www.ti.com/product/SN74AHC1G14>

<http://www.ti.com/product/SN74AHC1G02>

<http://www.ti.com/product/SN74AHC1G125>

<http://www.ti.com/product/SN74AHC1G04-Q1>

<http://www.ti.com/product/SN74AHC1G09>

<http://www.ti.com/product/SN74AHC1G00-Q1>

Reason for Change:

To accurately reflect device characteristics. Datasheet update driven by changes announced in PCN 20230927000 and 20231219000.

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

No anticipated impact.

Changes to product identification resulting from this PCN:

None.

Product Affected:

Devices affected by changes in PCN 20230927000

SN74AHC1G02DCKR	SN74AHC1G09DCKR	SN74AHC1G125DCKR	SN74AHC1G00QDCKRQ1
SN74AHC1G04DCKR	SN74AHC1G14DCKR	SN74AHC1G14DCKRG4	SN74AHC1G04QDCKRQ1
SN74AHC1G08DCKR			

Devices affected by changes in PCN 20231219000

SN74AHC1G02DBVR	SN74AHC1G09DBVR	SN74AHC1G125DBVR	SN74AHC1G14DBVRG4
SN74AHC1G04DBVR	SN74AHC1G14DBVR	SN74AHC1G14DBVRE4	SN74AHC1G08QDBVRQ1
SN74AHC1G08DBVR			

Datasheet Only

SN74AHC1G02DCK3	74AHC1G125DBVTG4	SN74AHC1G04DBVTG4	SN74AHC1G14DBVTG4
SN74AHC1G04DBV3	74AHC1G125DCKRE4	SN74AHC1G04DCKRE4	SN74AHC1G14DCKRE4
SN74AHC1G04DCK3	74AHC1G125DCKRG4	SN74AHC1G04DCKRG4	SN74AHC1G14DCKTE4
SN74AHC1G08DBV3	SN74AHC1G125DCK3	SN74AHC1G04DCKTG4	SN74AHC1G14DCKTG4
SN74AHC1G08DCK3	CAHC1G04QDCKRG4Q1	SN74AHC1G08DBVRE4	SN74AHC1G04QDCKRBO
SN74AHC1G08DCKT	SN74AHC1G02DBVRE4	SN74AHC1G08DBVRG4	SN74AHC1G08DCKR-NG
SN74AHC1G14DBV3	SN74AHC1G02DBVRG4	SN74AHC1G08DBVTG4	SN74AHC1G08IDBVRSV
SN74AHC1G14DCK3	SN74AHC1G02DBVTG4	SN74AHC1G08DCKRE4	SN74AHC1G08QDCKRKN
74AHC1G125DBVRE4	SN74AHC1G02DCKRG4	SN74AHC1G08DCKRG4	SN74AHC1G08QDCKRSV
74AHC1G125DBVRG4	SN74AHC1G04DBVRE4	SN74AHC1G08DCKTE4	SN74AHC1G08SDCKRWB
74AHC1G125DBVTE4	SN74AHC1G04DBVRG4	SN74AHC1G08DCKTG4	SN74AHC1G14DCKR-NG

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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