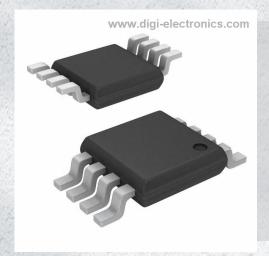


# 74HC3GU04DP,125 Datasheet



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DiGi Electronics Part Number 74HC3GU04DP,125-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74HC3GU04DP,125

Description IC INVERTER 3CH 3-INP 8TSSOP

Detailed Description Inverter IC 3 Channel 8-TSSOP



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# **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
74HC3GU04DP,125	Nexperia USA Inc.
Series:	Product Status:
74HC	Active
Logic Type:	Number of Circuits:
Inverter	3
Number of Inputs:	Features:
3	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 6V	20 μΑ
Current - Output High, Low:	Input Logic Level - Low:
5.2mA, 5.2mA	0.5V ~ 1.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 4.2V	5ns @ 6V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
8-TSSOP	8-TSSOP, 8-MSOP (0.118", 3.00mm Width)
Base Product Number:	
74HC3GU04	

# **Environmental & Export classification**

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



**Product data sheet** 

# 1. General description

The 74HC3GU04 is a triple unbuffered inverter. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of  $V_{CC}$ .

## 2. Features and benefits

- Wide supply voltage range from 2.0 V to 6.0 V
- Symmetrical output impedance
- · High noise immunity
- · Low-power dissipation
- Balanced propagation delays
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

# 3. Ordering information

#### **Table 1. Ordering information**

Table II of a ling in office of						
Type number	Package					
	Temperature range	Name	Description	Version		
74HC3GU04DP	-40 °C to +125 °C		plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2		
74HC3GU04DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1		

## 4. Marking

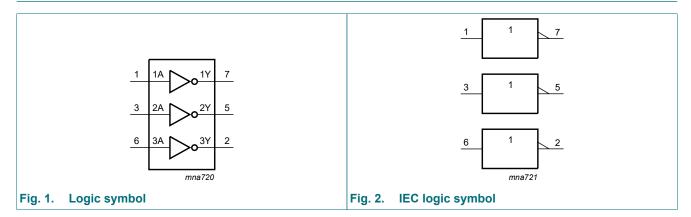
#### Table 2. Marking

Type number	Marking code[1]
74HC3GU04DP	HU4
74HC3GU04DC	HU4

[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

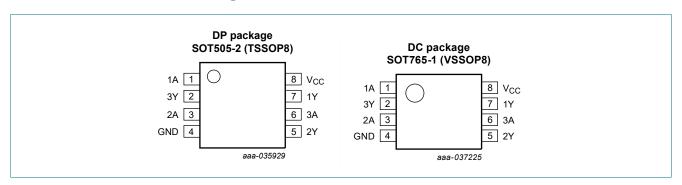


# 5. Functional diagram



# 6. Pinning information

# 6.1. Pinning



## 6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description				
1A, 2A, 3A	1, 3, 6	data input				
1Y, 2Y, 3Y	7, 5, 2	data output				
GND	4	ground (0 V)				
V <sub>CC</sub>	8	supply voltage				

# 7. Functional description

#### **Table 4. Function table**

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$ 

Input	Output
nA	nY
L	Н
Н	L

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# 8. Limiting values

#### Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	$V_I < -0.5 \text{ V or } V_I > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I <sub>OK</sub>	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
Io	output current	$V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$ [1]	-	±25	mA
I <sub>CC</sub>	quiescent supply current	[1]	-	50	mA
I <sub>GND</sub>	ground current	[1]	-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [2]	-	250	mW

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		2.0	5.0	6.0	V
VI	input voltage		0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 2.0 V	-	-	625	ns/V
		V <sub>CC</sub> = 4.5 V	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	ns/V

## 10. Static characteristics

## **Table 7. Static characteristics**

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C		-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	
	HIGH-level input	V <sub>CC</sub> = 2.0 V	1.7	1.1	-	1.7	-	V
	voltage	V <sub>CC</sub> = 4.5 V	3.6	2.4	-	3.6	-	V
		V <sub>CC</sub> = 6.0 V	4.8	3.1	-	4.8	-	V
$V_{IL}$	LOW-level input voltage	V <sub>CC</sub> = 2.0 V	-	0.9	0.3	-	0.3	V
		V <sub>CC</sub> = 4.5 V	-	2.1	0.9	-	0.9	V
		V <sub>CC</sub> = 6.0 V	-	2.9	1.2	-	1.2	V

<sup>[2]</sup> For SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C. For SOT765-1 (VSSOP8) package: P<sub>tot</sub> derates linearly with 4.9 mW/K above 99 °C.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C t	Unit	
			Min	Typ[1]	Max	Min	Max	1
V <sub>OH</sub>	HIGH-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	4.13	4.32	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.63	5.81	-	5.2	-	V
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 V	-	0.15	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.33	-	0.4	V
I <sub>I</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±1.0	-	±1.0	μA
I <sub>CC</sub>	supply current	per input pin; $V_I = V_{CC}$ or GND; $I_O = 0A$ ; $V_{CC} = 6.0 \text{ V}$	-	-	10	-	20	μΑ
Cı	input capacitance		-	3.0	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $T_{amb}$  = 25 °C.

# 11. Dynamic characteristics

## **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 4.

Symbol	Parameter	Conditions		-40	°C to +85	°C	-40 °C t	o +125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 3 [2]	]						
		V <sub>CC</sub> = 2.0 V		-	13	75	-	90	ns
		V <sub>CC</sub> = 4.5 V		-	6	15	-	18	ns
		V <sub>CC</sub> = 6.0 V		-	5	13	-	15	ns
t <sub>t</sub>	transition time	nY; see Fig. 3 [3]	]						
		V <sub>CC</sub> = 2.0 V		-	18	95	-	125	ns
		V <sub>CC</sub> = 4.5 V		-	6	19	-	25	ns
		V <sub>CC</sub> = 6.0 V		-	5	16	-	20	ns
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$ [4]	]	-	5	-	-	-	pF

- All typical values are measured at T<sub>amb</sub> = 25 °C.
- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- [3] t<sub>t</sub> is the same as t<sub>TLH</sub> and t<sub>THL</sub>.
   [4] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$  where:

f<sub>i</sub> = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$ 

## 11.1. Waveforms and test circuit

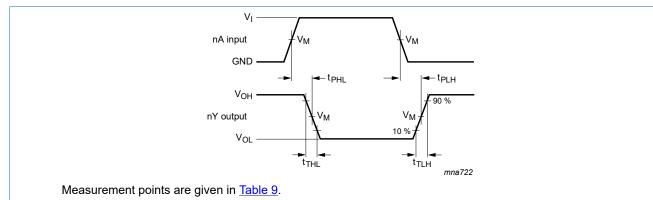
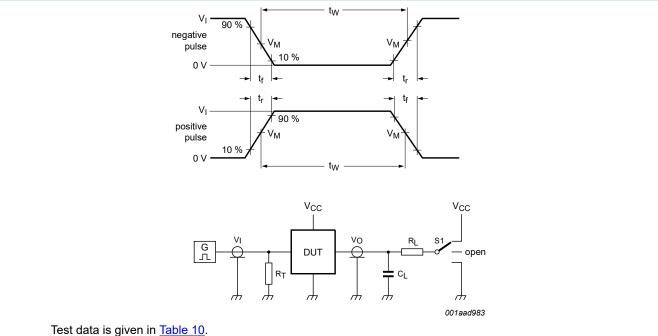


Fig. 3. Propagation delay data input (nA) to data output (nY) and transition time output (nY)

#### Table 9. Measurement points

Input	Output			
$V_{M}$	$V_{M}$			
0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>			



Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_0$  of the pulse generator;

C<sub>L</sub> = Load capacitance including jig and probe capacitance;

R<sub>L</sub> = Load resistance;

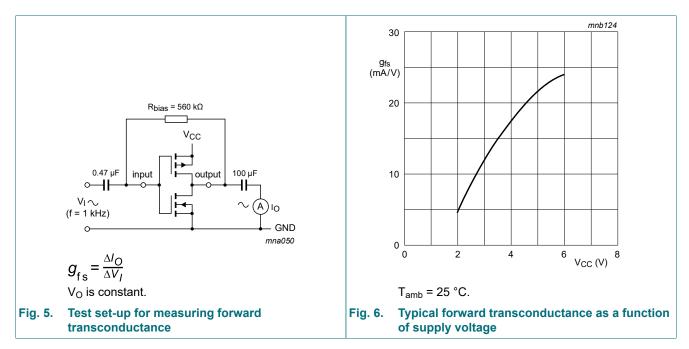
S1 = Test selection switch.

Test circuit for measuring switching times Fig. 4.

#### Table 10. Test data

Input		Load		S1 position
V <sub>I</sub>	t <sub>r</sub> , t <sub>f</sub>	CL	R <sub>L</sub>	t <sub>PHL</sub> , t <sub>PLH</sub>
GND to V <sub>CC</sub>	≤ 6 ns	50 pF	1 kΩ	open

## 11.2. Additional characteristics



# 12. Typical transfer characteristics

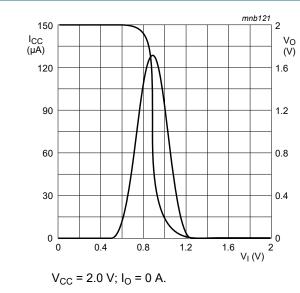


Fig. 7. Typical transfer characteristics  $V_{CC}$  = 2.0 V

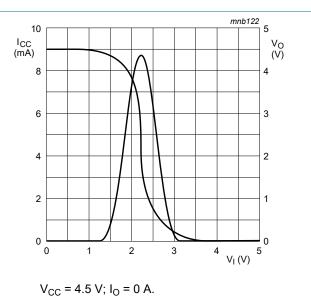


Fig. 8. Typical transfer characteristics  $V_{CC} = 4.5 \text{ V}$ 

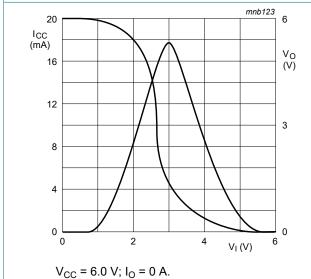


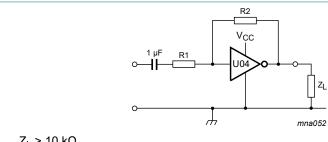
Fig. 9. Typical transfer characteristics  $V_{CC}$  = 6.0 V

# 13. Application information

Some applications for the 74HC3GU04 are:

- Linear amplifier (see Fig. 10)
- Crystal oscillator (see Fig. 12).

All values given are typical values unless otherwise specified.



 $Z_L > 10 \text{ k}\Omega$ .

R1 ≥ 3 k $\Omega$ .

 $R2 \le 1 M\Omega$ .

Open loop amplification:  $A_{OL} = 20$  (typical).

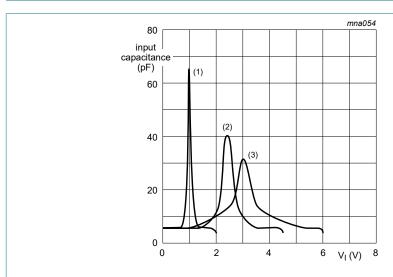
Voltage amplification: 
$$A_V = -\frac{A_{\rm OL}}{1 + \frac{\rm R1}{\rm R2}(1 + A_{\rm OL})}$$
.

 $V_{o(p-p)} = V_{CC}$  - 1.5 V centered at 0.5 ×  $V_{CC}$ .

Unity gain bandwidth product is 5 MHz (typical).

Input capacitance see Fig. 11.

## Fig. 10. Linear amplifier application

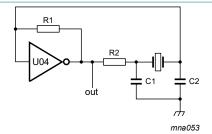


(1)  $V_{CC} = 2.0 \text{ V}.$ 

(2)  $V_{CC} = 4.5 \text{ V}$ .

(3)  $V_{CC} = 6.0 \text{ V}.$ 

Fig. 11. Typical input capacitance as a function of the input voltage



Test data is given in <u>Table 11</u> and <u>Table 12</u>.

C1 = 47 pF (typical).

C2 = 22 pF (typical).

R1 = 1 M $\Omega$  to 10 M $\Omega$  (typical).

R2 optimum value depends on the frequency and required stability against changes in  $V_{\text{CC}}$  or average minimum  $I_{\text{CC}}.$ 

( $I_{CC}$  = 2 mA at  $V_{CC}$  = 3.0 V and f = 1 MHz.)

Fig. 12. Crystal oscillator application

Table 11. External components for resonator (f < 1 MHz)

Frequency	R1	R2	C1	C2
10 kHz to 15.9 kHz	2.2 ΜΩ	220 kΩ	56 pF	20 pF
16 kHz to 24.9 kHz	2.2 ΜΩ	220 kΩ	56 pF	10 pF
25 kHz to 54.9 kHz	2.2 ΜΩ	100 kΩ	56 pF	10 pF
55 kHz to 129.9 kHz	2.2 ΜΩ	100 kΩ	47 pF	5 pF
130 kHz to 199.9 kHz	2.2 ΜΩ	47 kΩ	47 pF	5 pF
200 kHz to 349.9 kHz	2.2 ΜΩ	47 kΩ	47 pF	5 pF
350 kHz to 600 kHz	2.2 ΜΩ	47 kΩ	47 pF	5 pF

Table 12. Optimum value for R2

Frequency	R2	Optimum	
3 kHz	2.0 kΩ	minimum required I <sub>CC</sub>	
	8.0 kΩ	minimum influence due to change in V <sub>CC</sub>	
6 kHz	1.0 kΩ	minimum required I <sub>CC</sub>	
	4.7 kΩ	minimum influence by V <sub>CC</sub>	
10 kHz	0.5 kΩ	minimum required I <sub>CC</sub>	
	2.0 kΩ	minimum influence by V <sub>CC</sub>	
14 kHz	0.5 kΩ	minimum required I <sub>CC</sub>	
	2.0 kΩ	minimum influence by V <sub>CC</sub>	
> 14 kHz	replace R2 by C3 = 35 pF (typical)		

# 14. Package outline

## TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

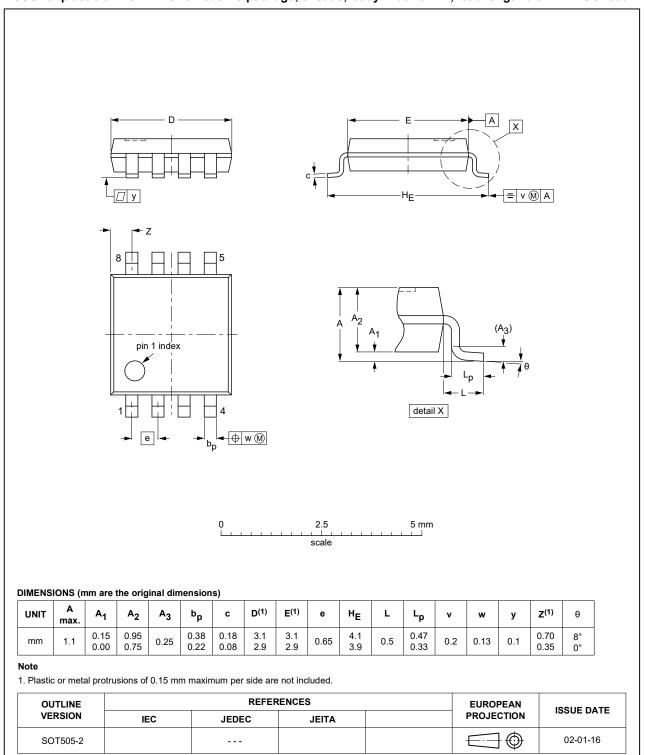


Fig. 13. Package outline SOT505-2 (TSSOP8)

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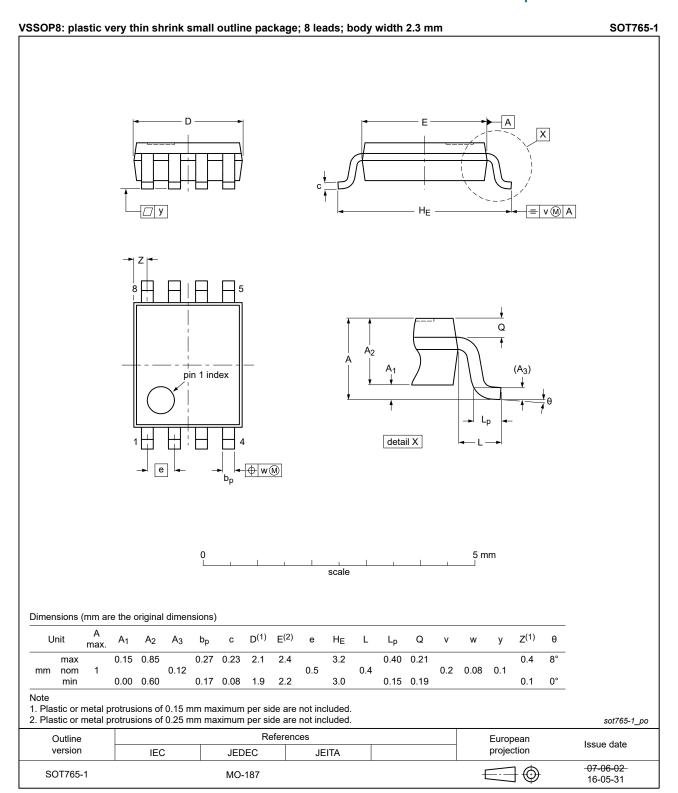


Fig. 14. Package outline SOT765-1 (VSSOP8)

# 15. Abbreviations

#### **Table 13. Abbreviations**

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council

# 16. Revision history

#### **Table 14. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC3GU04 v.7	20240805	Product data sheet	-	74HC3GU04 v.6	
Modifications:		<ul> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Section 8</u>: P<sub>tot</sub> and derating values for P<sub>tot</sub> total power dissipation updated.</li> </ul>			
74HC3GU04 v.6	20190129	Product data sheet	-	74HC3GU04 v.5	
Modifications:	guidelines of Legal texts	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Type number 74HC3GU04GD (SOT996-2/XSON8) removed.</li> </ul>			
74HC3GU04 v.5	20131002	Product data sheet	-	74HC3GU04 v.4	
Modifications:	For type nu	For type number 74HC3GU04GD XSON8U has changed to XSON8.			
74HC3GU04 v.4	20100111	Product data sheet	-	74HC3GU04 v.3	
Modifications:	Marking co	Marking code for 74HC3GU04DP package changed from HU04 to HU4			
74HC3GU04 v.3	20090511	Product data sheet	-	74HC3GU04 v.2	
74HC3GU04 v.2	20031126	Product specification	-	74HC3GU04 v.1	
74HC3GU04 v.1	20030818	Product specification	-	-	

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## 17. Legal information

#### **Data sheet status**

Document status [1][2]	Product status [3]	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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