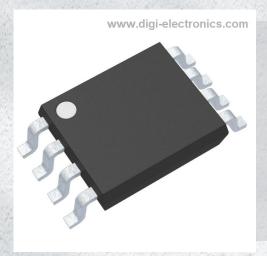


# 74HC3G04DC-Q100H Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number 74HC3G04DC-Q100H-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74HC3G04DC-Q100H

Description IC INVERTER 3CH 3-INP 8VSSOP

Detailed Description Inverter IC 3 Channel 8-VSSOP



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RFQ Email: Info@DiGi-Electronics.com

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# **Purchase and inquiry**

Manufacturer Product Number:	Manufacturer:
74HC3G04DC-Q100H	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	1 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	13ns @ 6V, 50pF
Operating Temperature:	Grade:
-40°C ~ 125°C	Automotive
Qualification:	Mounting Type:
AEC-Q100	Surface Mount
Supplier Device Package:	Package / Case:
8-VSSOP	8-VFSOP (0.091", 2.30mm Width)
Base Product Number:	
74HC3G04	

# **Environmental & Export classification**

8542.39.0001

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



# 74HC3G04-Q100; 74HCT3G04-Q100 Triple inverter

Rev. 4 — 8 December 2023

**Product data sheet** 

### 1. General description

The 74HC3G04-Q100; 74HCT3G04-Q100 is a triple inverter. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess of V<sub>CC</sub>.

This product has been qualified to the Automotive Electronics Council (AEC) standard Q100 (Grade 1) and is suitable for use in automotive applications.

#### 2. Features and benefits

- Automotive product qualification in accordance with AEC-Q100 (Grade 1)
  - Specified from -40 °C to +85 °C and from -40 °C to +125 °C
- Wide supply voltage range from 2.0 V to 6.0 V
- Input levels:
  - For 74HC3G04-Q100: CMOS level
  - For 74HCT3G04-Q100: TTL level
- CMOS low power dissipation
- · High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Complies with JEDEC standards
  - JESD8C (2.7 V to 3.6 V)
  - JESD7A (2.0 V to 6.0 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
  - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V

# 3. Ordering information

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

Type number	Package								
	Temperature range	·							
74HC3G04DP-Q100 74HCT3G04DP-Q100	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2					
74HC3G04DC-Q100 74HCT3G04DC-Q100	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1					



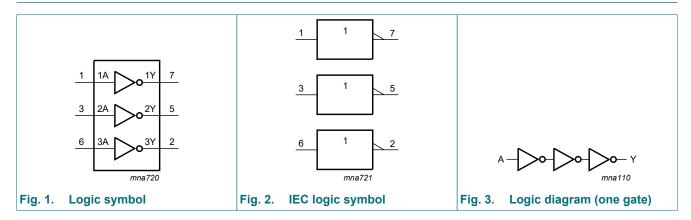
# 4. Marking

#### Table 2. Marking codes

Type number	Marking code[1]
74HC3G04DP-Q100	H04
74HCT3G04DP-Q100	T04
74HC3G04DC-Q100	H04
74HCT3G04DC-Q100	T04

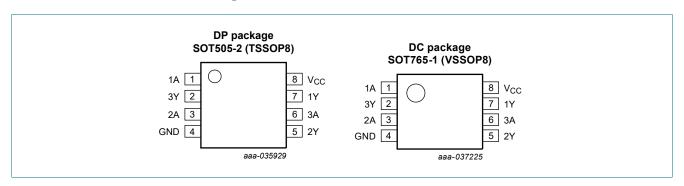
<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 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
GND	4	ground (0 V)
1Y, 2Y, 3Y	7, 5, 2	data output
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

# 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 <sub>CC</sub>	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>	supply current	[1]	-	50	mA
I <sub>GND</sub>	ground current	[1]	-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
$P_D$	dynamic 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	74HC3G04-Q100			74H	Unit		
			Min	Тур	Max	Min	Тур	Max	
$V_{CC}$	supply voltage		2.0	5.0	6.0	4.5	5.0	5.5	V
VI	input voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
Vo	output voltage		0	-	V <sub>CC</sub>	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	-40	+25	+125	°C
Δt/ΔV	input transition rise and	V <sub>CC</sub> = 2.0 V	-	-	625	-	-	-	ns/V
	fall rate	V <sub>CC</sub> = 4.5 V	-	1.67	139	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/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.

# 10. Static characteristics

#### **Table 7. Static characteristics**

Voltages are referenced to GND (ground = 0 V). All typical values are measured at  $T_{amb}$  = 25 °C.

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC3G	04-Q100					1			-	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	1.2	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 4.5 V	3.15	2.4	-	3.15	-	3.15	-	V
		V <sub>CC</sub> = 6.0 V	4.2	3.2	-	4.2	-	4.2	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	0.8	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 4.5 V	-	2.1	1.35	-	1.35	-	1.35	V
		V <sub>CC</sub> = 6.0 V	-	2.8	1.8	-	1.8	-	1.8	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	$I_O = -20 \mu A; V_{CC} = 2.0 V$	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 6.0 V	5.9	6.0	-	5.9	-	5.9	-	V
		$I_{O}$ = -4.0 mA; $V_{CC}$ = 4.5 V	4.18	4.32	-	4.13	-	3.7	-	V
		$I_{O}$ = -5.2 mA; $V_{CC}$ = 6.0 V	5.68	5.81	-	5.63	-	5.2	-	V
V <sub>OL</sub>	LOW-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	$I_{O}$ = 20 $\mu$ A; $V_{CC}$ = 2.0 $V$	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 20 \mu A; V_{CC} = 4.5 V$	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 6.0 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
		I <sub>O</sub> = 5.2 mA; V <sub>CC</sub> = 6.0 V	-	0.16	0.26	-	0.33	-	0.4	V
l <sub>1</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 6.0 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μA
I <sub>CC</sub>	supply current	per input pin; $V_{CC} = 6.0 \text{ V}$ ; $V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$ ;	-	-	1.0	-	10	-	20	μΑ
C <sub>I</sub>	input capacitance		-	1.5	-	-	-	-	-	pF

#### 74HC3G04-Q100; 74HCT3G04-Q100

**Triple inverter** 

Symbol	Parameter	Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT3	G04-Q100				•	'		,	'	
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
$V_{OH}$	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$								
	output voltage	I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		$I_{O}$ = -4.0 mA; $V_{CC}$ = 4.5 V	4.18	4.32	-	4.13	-	3.7	-	V
$V_{OL}$	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		$I_O = 4.0 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.15	0.26	-	0.33	-	0.4	V
l <sub>l</sub>	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	±0.1	-	±1.0	-	±1.0	μΑ
I <sub>CC</sub>	supply current	per input pin; $V_{CC} = 5.5 \text{ V}$ ; $V_I = V_{CC}$ or GND; $I_O = 0 \text{ A}$ ;	-	-	1.0	-	10	-	20	μΑ
ΔI <sub>CC</sub>	additional supply current	per input; $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V};$ $V_I = V_{CC} - 2.1 \text{ V}; I_O = 0 \text{ A}$	-	-	300	-	375	-	410	μΑ
Cı	input capacitance		-	1.5	-	-	-	-	-	pF

# 11. Dynamic characteristics

#### **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); all typical values are measured at  $T_{amb}$  = 25 °C; for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HC3G	04-Q100									
t <sub>pd</sub>	propagation	nA to nY; see Fig. 4 [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	22	75	-	90	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	8	15	-	18	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	16	-	20	ns
t <sub>t</sub>	transition time	see <u>Fig. 4</u> [2]								
		V <sub>CC</sub> = 2.0 V	-	18	75	-	95	-	125	ns
		V <sub>CC</sub> = 4.5 V	-	6	15	-	19	-	25	ns
		V <sub>CC</sub> = 6.0 V	-	5	13	-	16	-	20	ns
C <sub>PD</sub>	power dissipation capacitance	$V_I = GND \text{ to } V_{CC}$ [3]	-	9	-	-	-	-	-	pF

#### 74HC3G04-Q100; 74HCT3G04-Q100

**Triple inverter** 

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
74HCT3	G04-Q100									
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 4 [1]								
		V <sub>CC</sub> = 4.5 V	-	10	18	-	23	-	29	ns
t <sub>t</sub>	transition time	$V_{CC} = 4.5 \text{ V}; \text{ see } \frac{\text{Fig. 4}}{}$ [2]	-	6	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	$V_1 = GND \text{ to } V_{CC} - 1.5 \text{ V}$ [3]	-	9	-	-	-	-	-	pF

- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .
- t<sub>t</sub> is the same as t<sub>TLH</sub> and t<sub>THL</sub>.
   C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).
   P<sub>D</sub> = C<sub>PD</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>i</sub> × N + Σ(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) where:

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

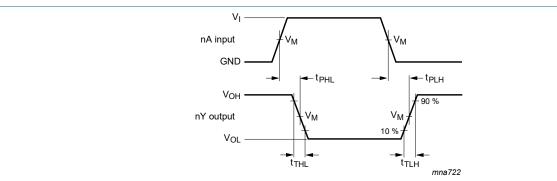
fo = output frequency in MHz;

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

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

N = number of inputs switching;  $\Sigma(C_L \times V_{CC}^2 \times f_0)$  = sum of outputs.

#### 11.1. Waveforms and test circuit



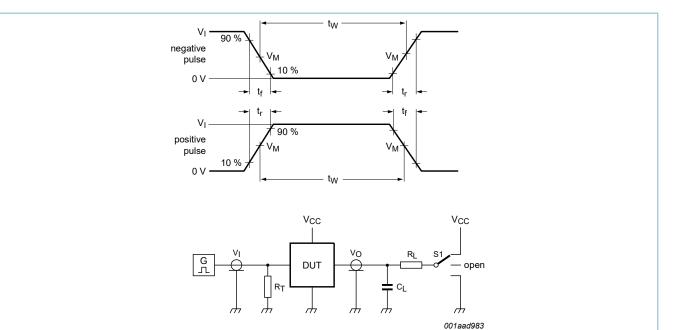
Measurement points are given in Table 9.

Logic levels: V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

The data input (nA) to output (nY) propagation delays

**Table 9. Measurement points** 

Туре	Input	Output
	$V_{M}$	V <sub>M</sub>
74HC3G04-Q100	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>
74HCT3G04-Q100	1.3 V	1.3 V



Test data is given in Table 10.

Definitions for test circuit:

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

 $C_L$  = Load capacitance including jig and probe capacitance;  $R_L$  = Load resistance; S1 = Test selection switch.

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

Туре	Input		Load		S1 position
	VI	t <sub>r</sub> , t <sub>f</sub>	C <sub>L</sub>	$R_L$	t <sub>PHL</sub> , t <sub>PLH</sub>
74HC3G04-Q100	V <sub>CC</sub>	≤ 6 ns	50 pF	1 kΩ	open
74HCT3G04-Q100	3 V	≤ 6 ns	50 pF	1 kΩ	open

# 12. Package outline

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

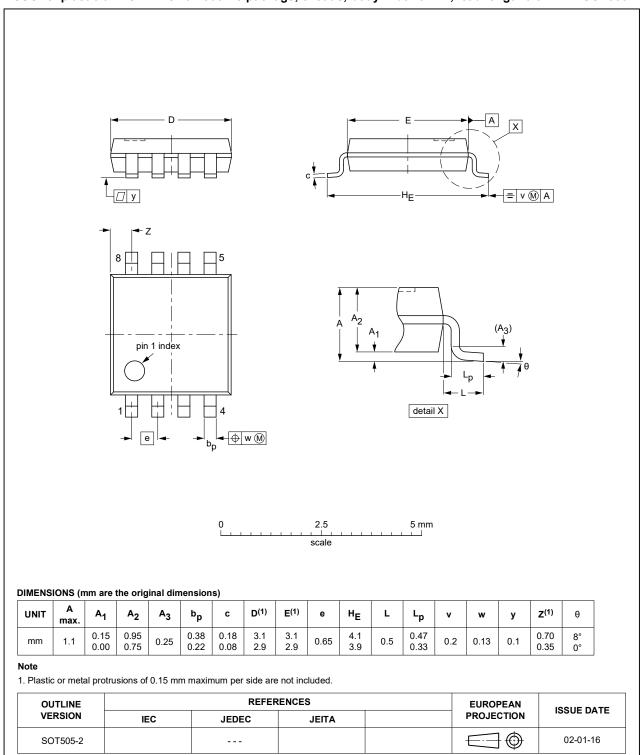


Fig. 6. Package outline SOT505-2 (TSSOP8)

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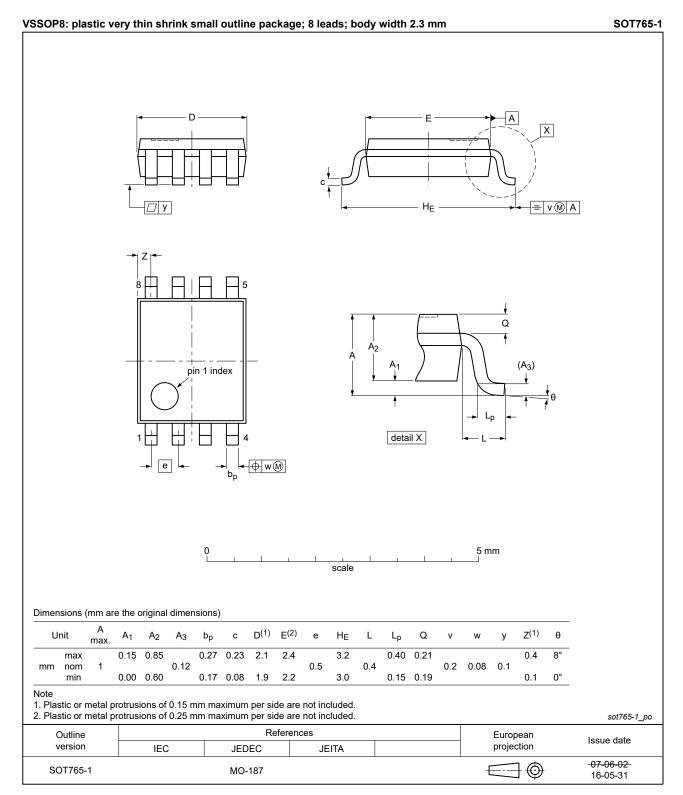


Fig. 7. Package outline SOT765-1 (VSSOP8)

# 13. Abbreviations

#### **Table 11. Abbreviations**

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
TTL	Transistor-Transistor Logic

# 14. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74HC_HCT3G04_Q100 v.4	20231208	Product data sheet	-	74HC_HCT3G04_Q100 v.3
Modifications:	<ul> <li><u>Section 2</u> updated.</li> <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>			
74HC_HCT3G04_Q100 v.3	20181126	Product data sheet	-	74HC_HCT3G04_Q100 v.2
Modifications:	<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 numbers 74HC3G04GD-Q100 and 74HCT3G04GD-Q100 (SOT996-2/XSON8) removed</li> </ul>			
74HC_HCT3G04_Q100 v.2	20131118	Product data sheet	-	74HC_HCT3G04_Q100 v.1
Modifications:	Added type numbers 74HC3G04GD-Q100 and 74HCT3G04GD-Q100 (XSON8 package)			
74HC_HCT3G04_Q100 v.1	20120827	Product data sheet	-	-

## 15. 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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For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 8 December 2023

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