

# 74AHC2G32DP,125 Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 74AHC2G32DP,125-DG Nexperia USA Inc. 74AHC2G32DP,125 IC GATE OR 2CH 2-INP 8TSSOP OR Gate IC 2 Channel 8-TSSOP

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74AHC2G32DP,125	Nexperia USA Inc.
Series:	Product Status:
74AHC	Active
Logic Type:	Number of Circuits:
OR Gate	2
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 5.5V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
8mA, 8mA	0.5V ~ 1.65V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 3.85V	7.5ns @ 5V, 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:	
74AHC2G32	

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8542.39.0001	

Dual 2-input OR gate Rev. 5 — 1 September 2023

## 1. General description

The 74AHC2G32; 74AHCT2G32 is a dual 2-input OR gate. Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

## 2. Features and benefits

- Wide supply voltage range from 2.0 to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- Input levels:
  - For 74AHC2G32: CMOS level
  - For 74AHCT2G32: TTL level
- CMOS low power dissipation
- · Symmetrical output impedance
- High noise immunity
- Low power dissipation
- Balanced propagation delays
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level A
- 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 from -40 °C to +125 °C

# 3. Ordering information

#### Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74AHC2G32DP 74AHCT2G32DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	<u>SOT505-2</u>						
74AHC2G32DC 74AHCT2G32DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	<u>SOT765-1</u>						

## 4. Marking

Table 2. Marking						
Type number	Marking code[1]					
74AHC2G32DP	A32					
74AHCT2G32DP	C32					
74AHC2G32DC	A32					
74AHCT2G32DC	C32					

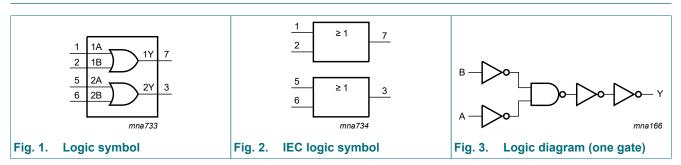
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# nexperia

# 74AHC2G32; 74AHCT2G32

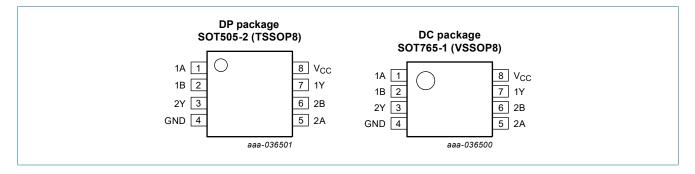
**Dual 2-input OR gate** 

# 5. Functional diagram



# 6. Pinning information

## 6.1. Pinning



## 6.2. Pin description

#### Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	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	nB	nY
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

**Dual 2-input OR gate** 

## 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
VI	input voltage		-0.5	+7.0	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < -0.5 V [1]	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_{\rm O} < -0.5 \text{ V or } V_{\rm O} > V_{\rm CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I <sub>O</sub>	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$	-	±25	mA
I <sub>CC</sub>	supply current		-	75	mA
I <sub>GND</sub>	ground current		-75	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [2]	-	250	mW

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

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

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

# 9. Recommended operating conditions

#### Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	74	74AHC2G32		74	Unit		
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	supply voltage		2.0	5.0	5.5	4.5	5.0	5.5	V
VI	input voltage		0	-	5.5	0	-	5.5	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> = 3.3 V ± 0.3 V	-	-	100	-	-	-	ns/V
	fall rate	V <sub>CC</sub> = 5.0 V ± 0.5 V	-	-	20	-	-	20	ns/V

Dual 2-input OR gate

# **10. Static characteristics**

#### Table 7. Static characteristics

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

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Мах	Min	Мах	
74AHC2	G32		1			I	1			.1
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 2.0 V	1.5	-	-	1.5	-	1.5	-	V
	input voltage	V <sub>CC</sub> = 3.0 V	2.1	-	-	2.1	-	2.1	-	V
		V <sub>CC</sub> = 5.5 V	3.85	-	-	3.85	-	3.85	-	V
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 2.0 V	-	-	0.5	-	0.5	-	0.5	V
	input voltage	V <sub>CC</sub> = 3.0 V	-	-	0.9	-	0.9	-	0.9	V
		V <sub>CC</sub> = 5.5 V	-	-	1.65	-	1.65	-	1.65	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 2.0 V	1.9	2.0	-	1.9	-	1.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 3.0 V	2.9	3.0	-	2.9	-	2.9	-	V
		I <sub>O</sub> = -50 μA; V <sub>CC</sub> = 4.5 V	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.58	-	-	2.48	-	2.40	-	V
		I <sub>O</sub> = -8.0 mA; V <sub>CC</sub> = 4.5 V	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>								
	output voltage	I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μA; V <sub>CC</sub> = 3.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 50 μΑ; V <sub>CC</sub> = 4.5 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	-	0.44	-	0.55	V
		I <sub>O</sub> = 8.0 mA; V <sub>CC</sub> = 4.5 V	-	-	0.36	-	0.44	-	0.55	V
I	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μA
CI	input capacitance		-	1.5	10	-	10	-	10	pF
74AHCT	2G32									
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	-	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	-	0.8	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	Ι <sub>Ο</sub> = -50 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -8.0 mA	3.94	-	-	3.8	-	3.70	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = 50 μA	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 8.0 mA	-	-	0.36	-	0.44	-	0.55	V
lı	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	0.1	-	1.0	-	2.0	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	1.0	-	10	-	40	μA

# 74AHC2G32; 74AHCT2G32

#### **Dual 2-input OR gate**

Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Мах	Min	Max	Min	Мах	
ΔI <sub>CC</sub>	supply current	per input pin; V <sub>I</sub> = 3.4 V; other inputs at V <sub>CC</sub> or GND; $I_O = 0 A$ ; V <sub>CC</sub> = 5.5 V	-	-	1.35	-	1.5	-	1.5	mA
CI	input capacitance		-	1.5	10	-	10	-	10	pF

# **11. Dynamic characteristics**

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

GND = 0 V; for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C			-40 °C	-40 °C to +85 °C		-40 °C to +125 °C	
				Min	Тур	Max	Min	Max	Min	Max	1
74AHC2	G32	1						1		1	1
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4	[1]								
	delay	V <sub>CC</sub> = 3.0 V to 3.6 V	[2]								
		C <sub>L</sub> = 15 pF		-	4.4	7.9	1.0	9.5	1.0	10.0	ns
		C <sub>L</sub> = 50 pF		-	6.3	11.4	1.0	13.0	1.0	14.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.2	5.5	1.0	6.5	1.0	7.0	ns
		C <sub>L</sub> = 50 pF		-	4.6	7.5	1.0	8.5	1.0	9.5	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[4]	-	16	-	-	-	-	-	pF
74AHCT	2G32	1									1
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4	[1]								
	delay	V <sub>CC</sub> = 4.5 V to 5.5 V	[3]								
		C <sub>L</sub> = 15 pF		-	3.3	6.9	1.0	8.0	1.0	9.0	ns
		C <sub>L</sub> = 50 pF		-	4.8	7.9	1.0	9.0	1.0	10.0	ns
C <sub>PD</sub>	power dissipation capacitance	per buffer; $C_L = 50 \text{ pF}; f_i = 1 \text{ MHz};$ $V_I = \text{GND to } V_{CC}$	[4]	-	17	-	-	-	-	-	pF

[1]  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . [2] Typical values are measured at  $V_{CC} = 3.3 \text{ V}$ . [3] Typical values are measured at  $V_{CC} = 5.0 \text{ V}$ . [4]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;

 $f_o$  = output frequency in MHz;

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

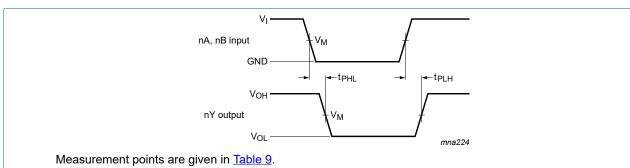
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

#### **Dual 2-input OR gate**

## 11.1. Waveforms and test circuit

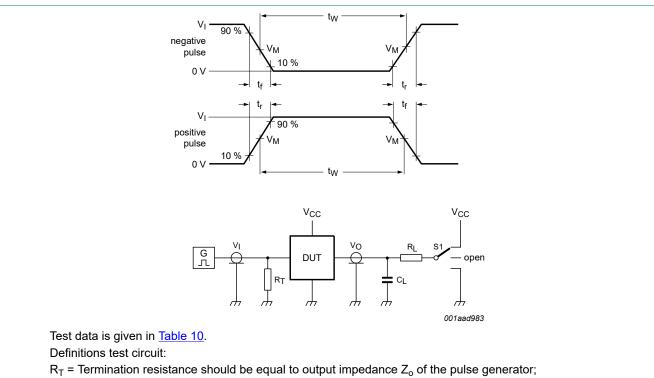


V<sub>OL</sub> and V<sub>OH</sub> are typical output voltage levels that occur with the output load.

#### Fig. 4. The input (nA and nB) to output (nY) propagation delays

#### Table 9. Measurement points

Туре	Input	Output
	V <sub>M</sub>	V <sub>M</sub>
74AHC2G32	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
74AHCT2G32	1.5 V	0.5V <sub>CC</sub>



C<sub>L</sub> = Load capacitance including jig and probe capacitance; R<sub>L</sub> = Load resistance; S1 = Test selection switch.

#### Fig. 5. Test circuit for measuring switching times

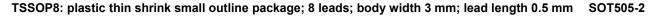
#### Table 10. Test data

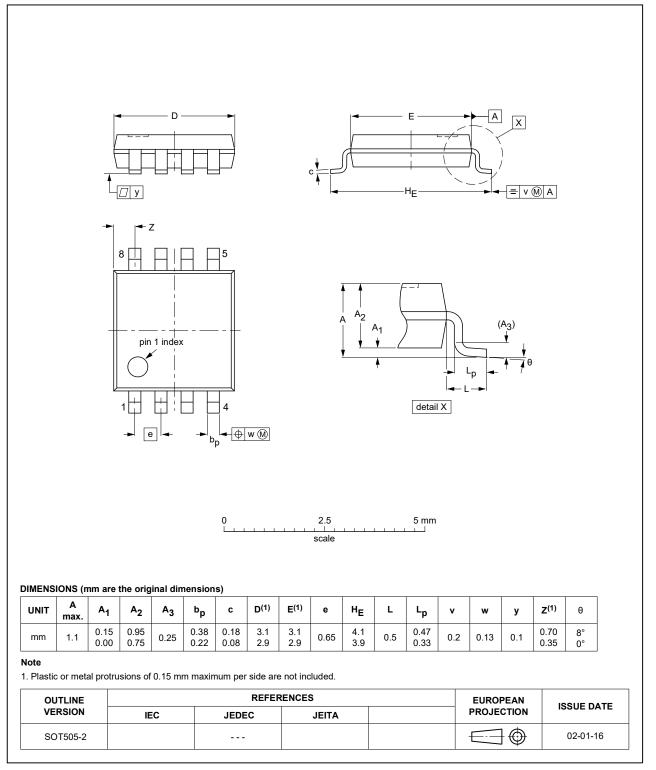
Туре	Input		Load		S1 position		
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PHL</sub> , t <sub>PLH</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
74AHC2G32	V <sub>CC</sub>	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>
74AHCT2G32	3 V	≤ 3 ns	15 pF, 50 pF	1 kΩ	open	GND	V <sub>CC</sub>

74AHC\_AHCT2G32

**Dual 2-input OR gate** 

## 12. Package outline



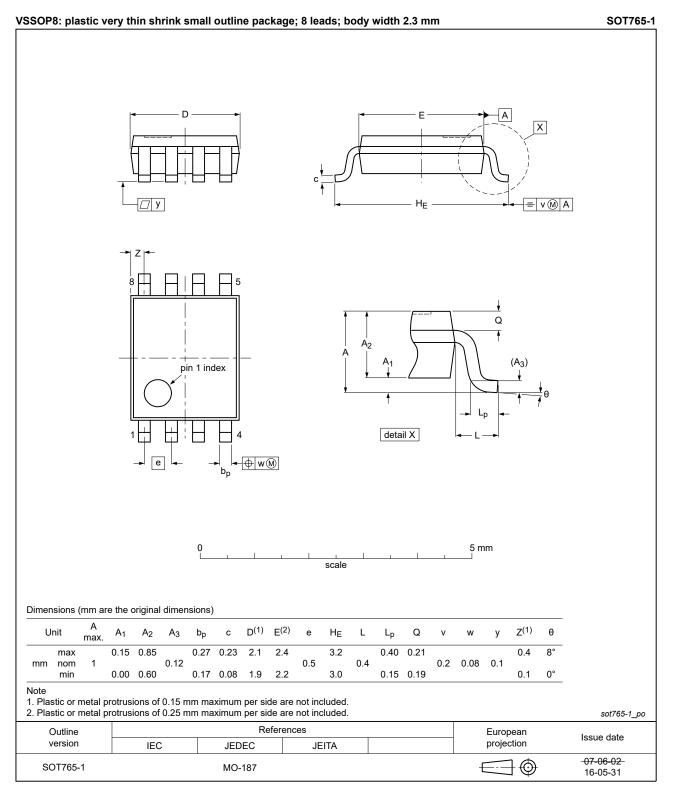


#### Fig. 6. Package outline SOT505-2 (TSSOP8)

74AHC\_AHCT2G32

# 74AHC2G32; 74AHCT2G32

#### **Dual 2-input OR gate**





# 13. Abbreviations

Table 11. Abbreviatio	able 11. Abbreviations			
Acronym	Description			
CDM	Charged Device Model			
CMOS	Complementary Metal-Oxide Semiconductor			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
HBM	Human Body Model			
TTL	Transistor-Transistor Logic			

# 14. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AHC_AHCT2G32 v.5	20230901	Product data sheet	-	74AHC_AHCT2G32 v.4	
Modifications:	• <u>Section 2</u> : E	nd <u>Section 2</u> updated. ESD specification updated a Derating values for P <sub>tot</sub> tota			
74AHC_AHCT2G32 v.4	20181218	Product data sheet	-	74AHC_AHCT2G32 v.3	
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 74AHC2G32GD and 74AHCT2G32GD removed.</li> </ul>				
74AHC_AHCT2G32 v.3	20130514	Product data sheet	-	74AHC_AHCT2G32 v.2	
Modifications:	<ul> <li>For type number 74AHC2G32GD and 74AHCT2G32GD XSON8U has changed to XSON8.</li> </ul>				
74AHC_AHCT2G32 v.2	20090120	Product data sheet	-	74AHC_AHCT2G32 v.1	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Added type number 74AHC2G32GD and 74AHCT2G32GD (XSON8U package).</li> </ul>				
74AHC_AHCT2G32 v.1	20040223	Product specification	-	-	

#### **Dual 2-input OR gate**

# 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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# 74AHC2G32; 74AHCT2G32

**Dual 2-input OR gate** 

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