

# 74HCT11D,652 Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

74HCT11D,652-DG Nexperia USA Inc. 74HCT11D,652 IC GATE AND 3CH 3-INP 1450 AND Gate IC 3 Channel 14-SO

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74HCT11D,652	Nexperia USA Inc.
Series:	Product Status:
74HCT	Obsolete
Logic Type:	Number of Circuits:
AND Gate	3
Number of Inputs:	Features:
3	
Voltage - Supply:	Current - Quiescent (Max):
4.5V ~ 5.5V	2 μΑ
Current - Output High, Low:	Input Logic Level - Low:
4mA, 4mA	0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
2V	24ns @ 4.5V, 50pF
Operating Temperature:	Mounting Type:
-40°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
14-50	14-SOIC (0.154", 3.90mm Width)
Base Product Number:	
74HCT11	

# **Environmental & Export classification**

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



**Product data sheet** 

### 1. General description

The 74HC11; 74HCT11 is a triple 3-input AND gate. 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 to 6.0 V
- CMOS low power dissipation
- High noise immunity
- Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Input levels:
  - For 74HC11: CMOS level
  - For 74HCT11: TTL level
- 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
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

### 3. Ordering information

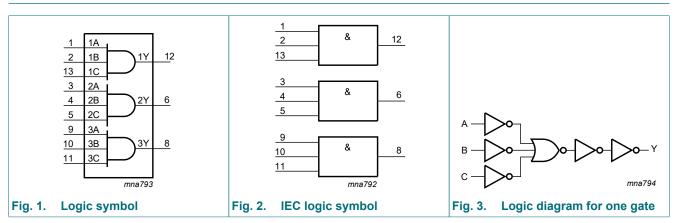
### Table 1. Ordering information

Type number	ype number Package						
	Temperature range	Name	Description	Version			
<u>74HC11D</u> <u>74HCT11D</u>	-40 °C to +125 °C	SO14	plastic small outline package; 14 leads; body width 3.9 mm	<u>SOT108-1</u>			
<u>74HC11PW</u> <u>74HCT11PW</u>	-40 °C to +125 °C	TSSOP14	plastic thin shrink small outline package; 14 leads; body width 4.4 mm	<u>SOT402-1</u>			



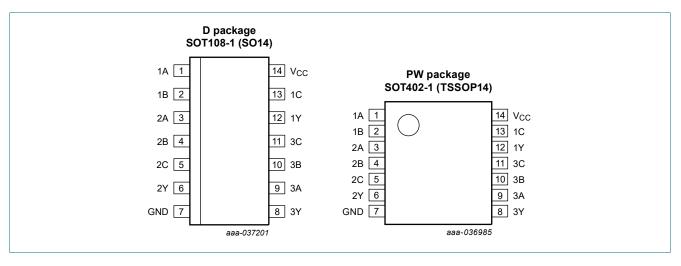
**Triple 3-input AND gate** 

### 4. Functional diagram



### 5. Pinning information

### 5.1. Pinning



### 5.2. Pin description

### Table 2. Pin description

Symbol	Pin	Description
1A, 2A, 3A	1, 3, 9	data input
1B, 2B, 3B	2, 4, 10	data input
GND	7	ground (0 V)
1C, 2C, 3C	13, 5, 11	data input
1Y, 2Y, 3Y	12, 6, 8	data output
V <sub>CC</sub>	14	supply voltage

### 6. Functional description

#### Table 3. Function selection

H = HIGH voltage level; L = LOW voltage level; X = don't care

Input	Output		
nA	nB	nC	nY
L	Х	Х	L
Х	L	Х	L
Х	Х	L	L
Н	Н	Н	Н

### 7. Limiting values

#### Table 4. Limiting values

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

Symbol	Parameter	Conditions	Min	Мах	Unit
V <sub>CC</sub>	supply voltage		-0.5	+7	V
I <sub>IK</sub>	input clamping current	$V_{\rm I} < -0.5 \text{ V or } V_{\rm I} > V_{\rm CC} + 0.5 \text{ V}$ [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
lo	output current	$-0.5 V < V_O < V_{CC} + 0.5 V$	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	[2]	-	500	mW

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

[2] For SOT108-1 (SO14) package: P<sub>tot</sub> derates linearly with 10.1 mW/K above 100 °C.

For SOT402-1 (TSSOP14) package: P<sub>tot</sub> derates linearly with 7.3 mW/K above 81 °C.

### 8. Recommended operating conditions

#### Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V)

Symbol	Parameter	Conditions	74HC11		74HCT11			Unit	
			Min	Тур	Max	Min	Тур	Max	
V <sub>CC</sub>	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	-	+125	-40	-	+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	-	1.67	139	ns/V
		V <sub>CC</sub> = 6.0 V	-	-	83	-	-	-	ns/V

### 9. Static characteristics

### Table 6. Static characteristics

At recommended operating conditions; 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	Max	
74HC11	J	I				1	1	1	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 <sub>O</sub> = -20 μA; V <sub>CC</sub> = 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 <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 4.5 V	3.98	4.32	-	3.84	-	3.7	-	V
		I <sub>O</sub> = -5.2 mA; V <sub>CC</sub> = 6.0 V	5.48	5.81	-	5.34	-	5.2	-	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> = 20 μA; V <sub>CC</sub> = 2.0 V	-	0	0.1	-	0.1	-	0.1	V
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 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 <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 4.5 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
lı	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 6.0 V$	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 6.0$ V	-	-	2.0	-	20	-	40	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF
74HCT1	1	1	1	1	1	1		1	1	
V <sub>IH</sub>	HIGH-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	2.0	1.6	-	2.0	-	2.0	-	V
V <sub>IL</sub>	LOW-level input voltage	$V_{CC}$ = 4.5 V to 5.5 V	-	1.2	0.8	-	0.8	-	0.8	V
V <sub>он</sub>	HIGH-level	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{CC} = 4.5 \text{ V}$								
	output voltage	I <sub>O</sub> = -20 μΑ	4.4	4.5	-	4.4	-	4.4	-	V
		I <sub>O</sub> = -4.0 mA	3.98	4.32	-	3.84	-	3.7	-	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> = 20 μA	-	0	0.1	-	0.1	-	0.1	V
I	input leakage current	$V_{I} = V_{CC}$ or GND; $V_{CC} = 5.5 V$	-	-	±0.1	-	±1	-	±1	μA
I <sub>CC</sub>	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V	-	-	2.0	-	20	-	40	μA

74HC\_HCT11

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### **Triple 3-input AND gate**

Symbol	Parameter	Conditions	25 °C		25 °C -40 °C to +85 °C			-40 °C to	Unit	
			Min	Тур	Max	Min	Max	Min	Мах	
-00	additional supply current	per input pin; $V_1 = V_{CC} - 2.1 \text{ V}; I_0 = 0 \text{ A};$ other inputs at $V_{CC}$ or GND; $V_{CC} = 4.5 \text{ V}$ to 5.5 V	-	100	360	-	450	-	490	μA
CI	input capacitance		-	3.5	-	-	-	-	-	pF

### 10. Dynamic characteristics

### Table 7. Dynamic characteristics

GND = 0 V;  $C_L = 50 pF$ ; for test circuit see Fig. 5.

Symbol Parameter		Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Мах	Min	Max	Min	Max	1
74HC11										
t <sub>pd</sub>	propagation	nA, nB to nY; see <u>Fig. 4</u> [1]								
	delay	V <sub>CC</sub> = 2.0 V	-	32	100	-	125	-	150	ns
		V <sub>CC</sub> = 4.5 V	-	12	20	-	25	-	30	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	9	-	-	-	-	-	ns
		V <sub>CC</sub> = 6.0 V	-	10	17	-	21	-	26	ns
tt	transition time	see <u>Fig. 4</u> [2]								
		V <sub>CC</sub> = 2.0 V	-	19	75	-	95	-	110	ns
		V <sub>CC</sub> = 4.5 V	-	7	15	-	19	-	22	ns
		V <sub>CC</sub> = 6.0 V	-	6	13	-	16	-	19	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [3] $V_I = GND$ to $V_{CC}$	-	18	-	-	-	-	-	pF
74HCT1	1									
t <sub>pd</sub>	propagation	nA, nB to nY; see Fig. 4 [1]								
delay	delay	V <sub>CC</sub> = 4.5 V	-	16	24	-	30	-	36	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	11	-	-	-	-	-	ns
t <sub>t</sub>	transition time	V <sub>CC</sub> = 4.5 V; see <u>Fig. 4</u> [2]	-	7	15	-	19	-	22	ns
C <sub>PD</sub>	power dissipation capacitance	per package; [3] V <sub>I</sub> = GND to V <sub>CC</sub> - 1.5 V	-	20	-	-	-	-	-	pF

[1]  $t_{pd}$  is the same as  $t_{PHL}$  and  $t_{PLH}$ . [2]  $t_t$  is the same as  $t_{THL}$  and  $t_{TLH}$ . [3]  $C_{PD}$  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:

 $f_i$  = input frequency in MHz;

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

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

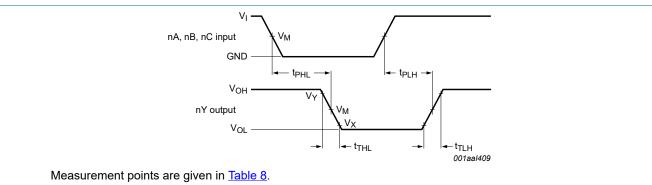
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

### **Triple 3-input AND gate**

### 10.1. Waveforms and test circuit

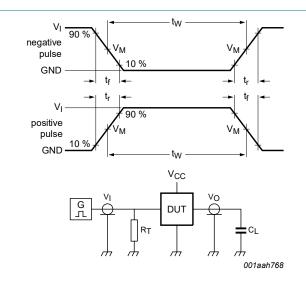


V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

### Fig. 4. Input to output propagation delays

#### Table 8. Measurement points

Туре	Input	Output				
	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>		
74HC11	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>		
74HCT11	1.3 V	1.3 V	0.1V <sub>CC</sub>	0.9V <sub>CC</sub>		



Test data is given in Table 9.

Definitions test circuit:

. . . .

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

C<sub>L</sub> = load capacitance including jig and probe capacitance.

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

Table 9. Test data							
Туре	Input	Input I		Test			
	VI	t <sub>r</sub> , t <sub>f</sub>	CL				
74HC11	V <sub>CC</sub>	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>			
74HCT11	3.0 V	6.0 ns	15 pF, 50 pF	t <sub>PLH</sub> , t <sub>PHL</sub>			

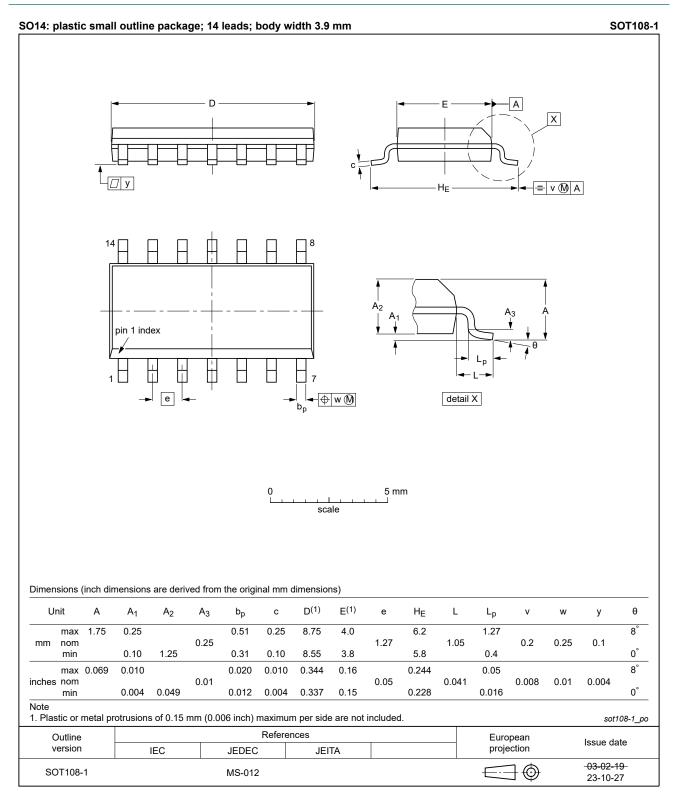
74HC\_HCT11

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**Triple 3-input AND gate** 

### **11. Package outline**



#### Fig. 6. Package outline SOT108-1 (SO14)

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### **Triple 3-input AND gate**

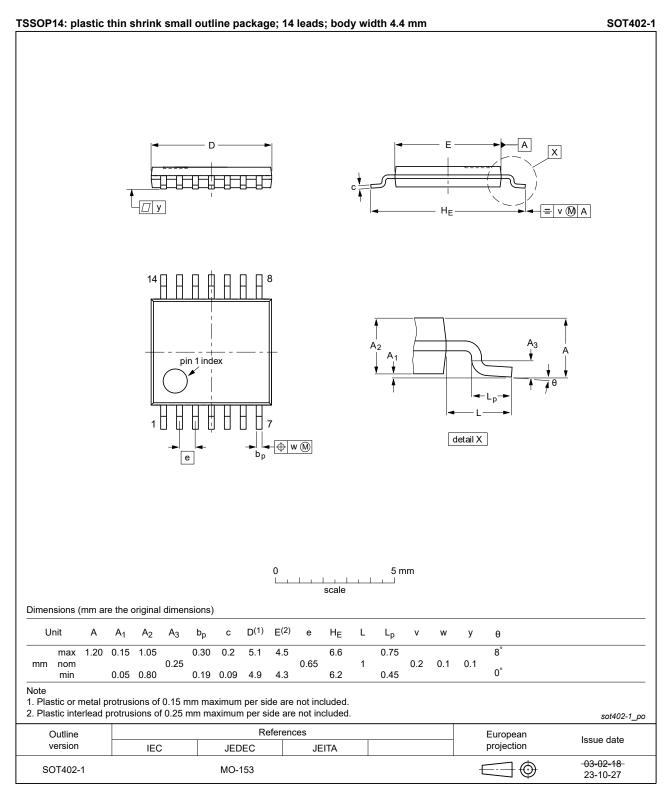


Fig. 7. Package outline SOT402-1 (TSSOP14)

# 12. 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

# 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74HC_HCT11 v.9	20240221	Product data sheet	-	74HC_HCT11 v.8	
Modifications:	<ul> <li><u>Section 2</u>: ESD specification updated according to the latest JEDEC standard.</li> <li><u>Fig. 6</u>, <u>Fig. 7</u>: Aligned SO and TSSOP package outline drawings to JEDEC MS-012 and MO-153</li> </ul>				
74HC_HCT11 v.8	20210811	Product data sheet	-	74HC_HCT11 v.7	
Modifications:	<ul> <li><u>Section 2</u> updated.</li> <li>Type number 74HC11DB (SOT337-1/SSOP14) removed.</li> </ul>				
74HC_HCT11 v.7	20210108	Product data sheet	-	74HC_HCT11 v.6	
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 number 74HCT11DB (SOT337-1/SSOP14) removed.</li> <li>Section 7: Derating values for P<sub>tot</sub> total power dissipation have been updated.</li> </ul>				
74HC_HCT11 v.6	20151119	Product data sheet	-	74HC_HCT11 v.5	
Modifications:	Type numbers 74HC11N and 74HCT11N (SOT27-1) removed.				
74HC_HCT11 v.5	20111216	Product data sheet	-	74HC_HCT11 v.4	
Modifications:	Legal pages updated.				
74HC_HCT11 v.4	20100325	Product data sheet	-	74HC_HCT11 v.3	
74HC_HCT11 v.3	20100209	Product data sheet	-	74HC_HCT11_CNV v.2	
74HC_HCT11_CNV v.2	19970827	Product specification	-	-	

#### **Triple 3-input AND gate**

### 14. 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.
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- [2] The term 'short data sheet' is explained in section "Definitions".
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