74AUP3G14

Low-power triple Schmitt trigger inverter

Rev. 3 — 8 February 2021

Product data sheet

1. General description

The 74AUP3G14 provides three inverting buffers with Schmitt trigger action which accept standard input signals. They are capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

This device ensures a very low static and dynamic power consumption across the entire V_{CC} range from 0.8 V to 3.6 V.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

The inputs switch at different points for positive and negative-going signals. The difference between the positive voltage V_{T+} and the negative voltage V_{T-} is defined as the input hysteresis voltage V_{H-} .

2. Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- · High noise immunity
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Applications

Wave and pulse shaper Astable multivibrator Monostable multivibrator



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4. Ordering information

Table 1. Ordering information

Type number	Package	Package									
	Temperature range	Name	Description	Version							
74AUP3G14DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1							
74AUP3G14GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1							
74AUP3G14GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116							
74AUP3G14GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203							

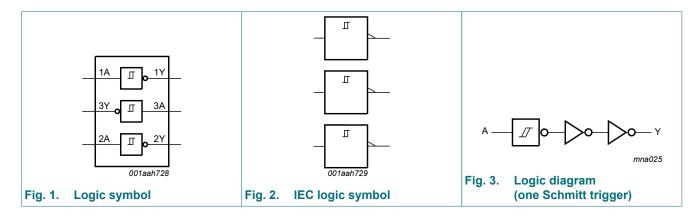
5. Marking

Table 2. Marking

Type number	Marking code [1]						
74AUP3G14DC	pK						
74AUP3G14GT	рК						
74AUP3G14GN	рК						
74AUP3G14GS	рК						

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

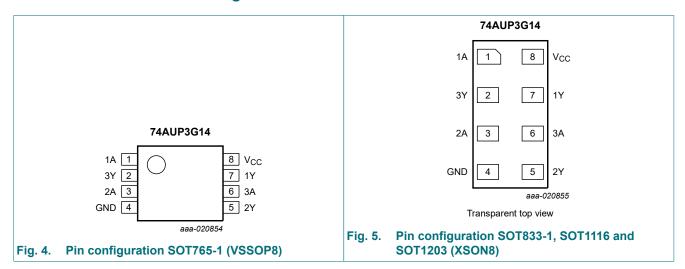
6. Functional diagram



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7. Pinning information

7.1. Pinning



7.2. 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_{CC}	8	supply voltage

8. 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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9. 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	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I _O	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±20	mA
I _{CC}	supply current		-	50	mA
I_{GND}	ground current		-50	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	250	mW

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

10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		0.8	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	Active mode	0	V _{CC}	V
		Power-down mode; V _{CC} = 0 V	0	3.6	V
T _{amb}	ambient temperature		-40	+125	°C

^[2] For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package: Ptot derates linearly with 3.1 mW/K above 68 °C.

For SOT1116 (XSON8) package: Ptot derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °C.

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11. Static characteristics

Table 7. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 2	5 °C					
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = -20 μ A; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.75 × V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	1.11	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.32	-	-	V
		I_{O} = -2.3 mA; V_{CC} = 2.3 V	2.05	-	-	V
		I_{O} = -3.1 mA; V_{CC} = 2.3 V	1.9	-	-	V
		I_{O} = -2.7 mA; V_{CC} = 3.0 V	2.72	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.6	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = 20 μ A; V_{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3 × V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.31	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.31	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.31	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.44	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.31	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.44	V
l _l	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.1	μA
I _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.2	μA
Δl _{OFF}	additional power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	±0.2	μΑ
I _{CC}	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μΑ
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	40	μΑ
Cı	input capacitance	V_I = GND or V_{CC} ; V_{CC} = 0 V to 3.6 V	-	1.1	-	pF
Co	output capacitance	$V_O = GND; V_{CC} = 0 V$	-	1.7	-	pF

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = -20 \mu A$; $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.7 × V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	1.03	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.30	-	-	V
		I _O = -2.3 mA; V _{CC} = 2.3 V	1.97	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.85	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.67	-	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.55	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I _O = 20 μA; V _{CC} = 0.8 V to 3.6 V	-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3 × V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.37	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.35	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.33	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.33	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.45	V
l _l	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.5	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.5	μΑ
Δl _{OFF}	additional power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	±0.6	μA
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.9	μA
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	50	μΑ

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C					
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I_{O} = -20 μ A; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.11	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.6 × V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	0.93	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.17	-	-	V
		I_{O} = -2.3 mA; V_{CC} = 2.3 V	1.77	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.67	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.40	-	-	V
		I_{O} = -4.0 mA; V_{CC} = 3.0 V	2.30	-	-	V
V _{OL}	LOW-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		$I_O = 20 \mu A$; $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.11	V
		I _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33 × V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.41	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.39	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.36	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.36	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.50	V
lį	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.75	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μΑ
Δl _{OFF}	additional power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V to 0.2 V	-	-	±0.75	μΑ
I _{CC}	supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	1.4	μΑ
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μΑ

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12. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 7.

Symbol	Parameter	Conditions		25 °C			°C to 5 °C		°C to 5 °C	Unit
			Min	Typ [1]	Max	Min	Max	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation	nA to nY; see Fig. 6 [2]								
	delay	V _{CC} = 0.8 V	-	19.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.7	5.9	11.0	2.4	11.1	2.4	11.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.6	4.3	6.6	2.4	7.1	2.4	7.4	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	3.7	5.4	2.0	6.0	2.0	6.2	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.0	4.1	1.7	4.5	1.7	4.7	ns
		V _{CC} = 3.0 V to 3.6 V	1.9	2.8	3.6	1.5	3.9	1.5	4.0	ns
C _L = 10	pF									
t _{pd}	propagation	nA to nY; see Fig. 6 [2]								
	delay	V _{CC} = 0.8 V	-	23.4	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.9	6.8	12.7	2.8	12.8	2.8	12.9	ns
		V _{CC} = 1.4 V to 1.6 V	2.8	5.0	7.7	2.6	8.2	2.6	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.7	4.2	6.2	2.5	6.7	2.5	7.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.3	3.6	4.8	2.1	5.2	2.1	5.5	ns
		V _{CC} = 3.0 V to 3.6 V	2.1	3.3	4.3	2.0	4.5	2.0	4.7	ns
C _L = 15	pF									
t _{pd}	propagation	nA to nY; see Fig. 6 [2]								
	delay	V _{CC} = 0.8 V	-	26.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.3	7.6	14.3	3.0	14.5	3.0	14.7	ns
		V _{CC} = 1.4 V to 1.6 V	3.3	5.5	8.6	2.9	9.4	2.9	9.8	ns
		V _{CC} = 1.65 V to 1.95 V	2.8	4.7	7.0	2.8	7.7	2.8	8.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	4.0	5.5	2.4	5.9	2.4	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	2.6	3.8	4.8	2.2	5.2	2.2	5.4	ns
C _L = 30	pF									
t _{pd}	propagation	nA to nY; see Fig. 6 [2]								
	delay	V _{CC} = 0.8 V	-	37.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.0	9.8	18.7	3.9	19.6	3.9	20.0	ns
		V _{CC} = 1.4 V to 1.6 V	3.7	7.1	11.2	3.8	12.3	3.8	12.9	ns
		V _{CC} = 1.65 V to 1.95 V	3.6	6.0	9.1	3.6	10.0	3.6	10.6	ns
		V _{CC} = 2.3 V to 2.7 V	3.5	5.2	6.9	3.2	7.5	3.2	7.9	ns
		V _{CC} = 3.0 V to 3.6 V	3.3	4.8	6.1	3.1	7.1	3.1	7.4	ns

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Symbol	Parameter	ter Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			N		Typ [1]	Max	Min	Max	Min	Max	
$C_L = 5 p$	F, 10 pF, 15 pF aı	nd 30 pF									
C _{PD}	power dissipation capacitance	f_i = 1 MHz; V_I = GND to V_{CC}	[3] [4]								
		capacitance	V _{CC} = 0.8 V		-	2.6	-	-	-	-	-
		V _{CC} = 1.1 V to 1.3 V		-	2.7	-	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V		-	2.9	-	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V		-	3.1	-	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V		-	3.7	-	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V		-	4.3	-	-	-	-	-	pF

- All typical values are measured at nominal V_{CC}.
- t_{pd} is the same as t_{PLH} and t_{PHL} . All specified values are the average typical values over all stated loads. [3]
- [4] C_{PD} is used to determine the dynamic power dissipation (P_D in μ 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:

$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_1 \times V_{CC}^2 \times f_0)$$
 where:

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

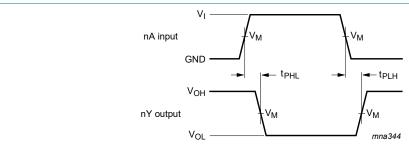
C_L = load capacitance in pF;

 V_{CC} = supply voltage in V;

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

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12.1. Waveforms and test circuit



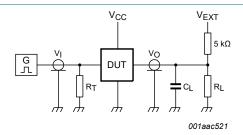
Measurement points are given in Table 9.

Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 6. The data input (nA) to output (nY) propagation delays

Table 9. Measurement points

Supply voltage	Output	Input					
V _{CC}	V _M	$V_{\rm M}$ $V_{\rm I}$ $t_{\rm r} = t_{\rm f}$					
0.8 V to 3.6 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{CC}	≤ 3.0 ns			



Test data is given in Table 10.

Definitions for test circuit:

R_L = Load resistance.

 C_L = Load capacitance including jig and probe capacitance.

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

V_{EXT} = External voltage for measuring switching times.

Fig. 7. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load	V _{EXT}			
V _{CC}	C _L	R _L [1]	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
0.8 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	2 × V _{CC}

[1] For measuring enable and disable times R_L = 5 $k\Omega.$

For measuring propagation delays, set-up and hold times and pulse width R_L = 1 $M\Omega$.

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13. Transfer characteristics

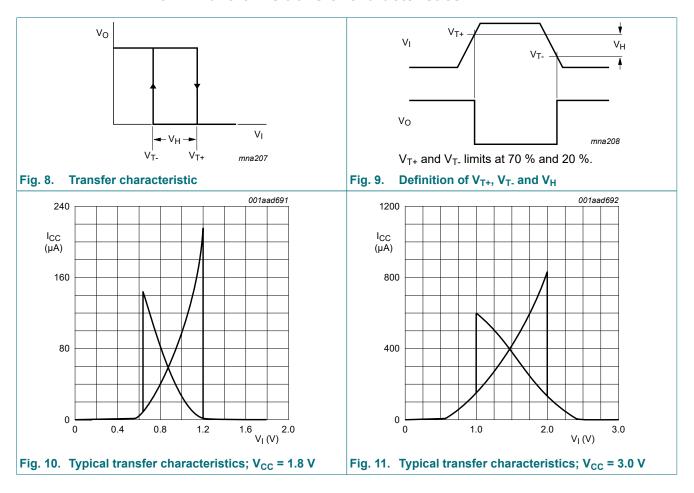
Table 11. Transfer characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 8.

Symbol Parameter		Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Max	
V _{T+}	positive-going threshold voltage	see Fig. 8 and Fig. 9								
		V _{CC} = 0.8 V	0.30	-	0.60	0.30	0.60	0.30	0.62	V
		V _{CC} = 1.1 V	0.53	-	0.90	0.53	0.90	0.53	0.92	V
		V _{CC} = 1.4 V	0.74	-	1.11	0.74	1.11	0.74	1.13	V
		V _{CC} = 1.65 V	0.91	-	1.29	0.91	1.29	0.91	1.31	V
		V _{CC} = 2.3 V	1.37	-	1.77	1.37	1.77	1.37	1.80	V
		V _{CC} = 3.0 V	1.88	-	2.29	1.88	2.29	1.88	2.32	V
V _{T-}		see <u>Fig. 8</u> and <u>Fig. 9</u>								
	threshold voltage	V _{CC} = 0.8 V	0.10	-	0.60	0.10	0.60	0.10	0.60	V
		V _{CC} = 1.1 V	0.26	-	0.65	0.26	0.65	0.26	0.65	V
		V _{CC} = 1.4 V	0.39	-	0.75	0.39	0.75	0.39	0.75	V
		V _{CC} = 1.65 V	0.47	-	0.84	0.47	0.84	0.47	0.84	V
		V _{CC} = 2.3 V	0.69	-	1.04	0.69	1.04	0.69	1.04	V
		V _{CC} = 3.0 V	0.88	-	1.24	0.88	1.24	0.88	1.24	V
V _H	hysteresis voltage	(V _{T+} - V _{T-}); see <u>Fig. 8</u> , <u>Fig. 9</u> , <u>Fig. 10</u> and <u>Fig. 11</u>								
		V _{CC} = 0.8 V	0.07	-	0.50	0.07	0.50	0.07	0.50	V
		V _{CC} = 1.1 V	0.08	-	0.46	0.08	0.46	0.08	0.46	V
		V _{CC} = 1.4 V	0.18	-	0.56	0.18	0.56	0.18	0.56	V
		V _{CC} = 1.65 V	0.27	-	0.66	0.27	0.66	0.27	0.66	V
		V _{CC} = 2.3 V	0.53	-	0.92	0.53	0.92	0.53	0.92	V
		V _{CC} = 3.0 V	0.79	-	1.31	0.79	1.31	0.79	1.31	V

Low-power triple Schmitt trigger inverter

13.1. Waveforms transfer characteristics



Low-power triple Schmitt trigger inverter

14. Application information

The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

 $P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC}$ where:

P_{add} = additional power dissipation (μW);

 f_i = input frequency (MHz);

 t_r = rise time (ns); 10 % to 90 %;

 t_f = fall time (ns); 90 % to 10 %;

 $\Delta I_{CC(AV)}$ = average additional supply current (μA).

Average $\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in Fig. 12.

An example of a relaxation circuit using the 74AUP3G14 is shown in Fig. 13.

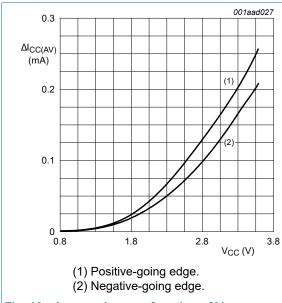


Fig. 12. Average I_{CC} as a function of V_{CC}

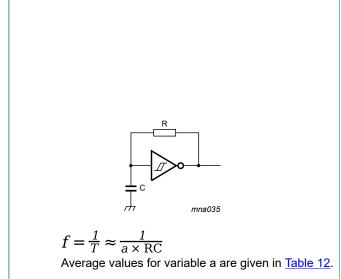


Fig. 13. Relaxation oscillator

Table 12. Variable values

Supply voltage	Variable a
1.1 V	1.28
1.5 V	1.22
1.8 V	1.24
2.8 V	1.34
3.3 V	1.45

Low-power triple Schmitt trigger inverter

15. Package outline

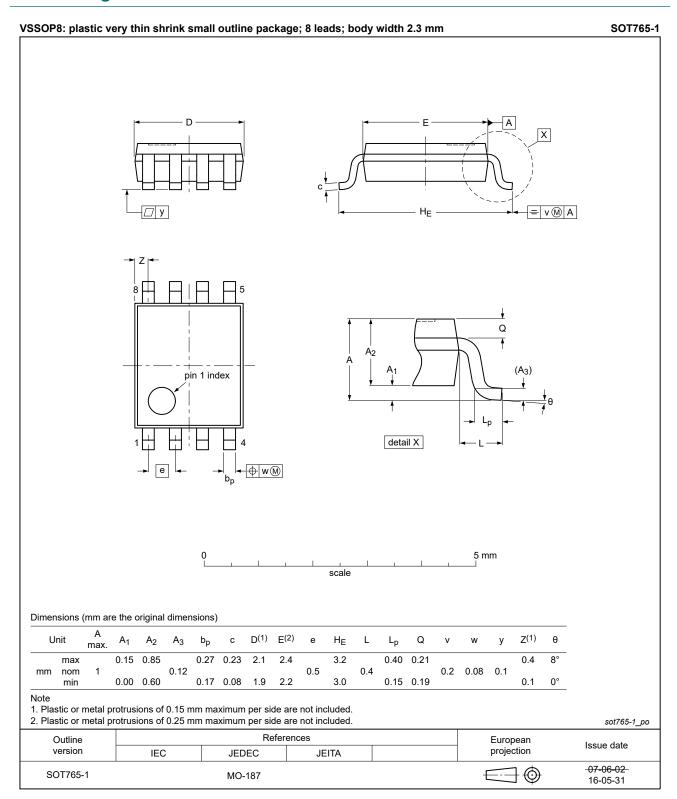


Fig. 14. Package outline SOT765-1 (VSSOP8)

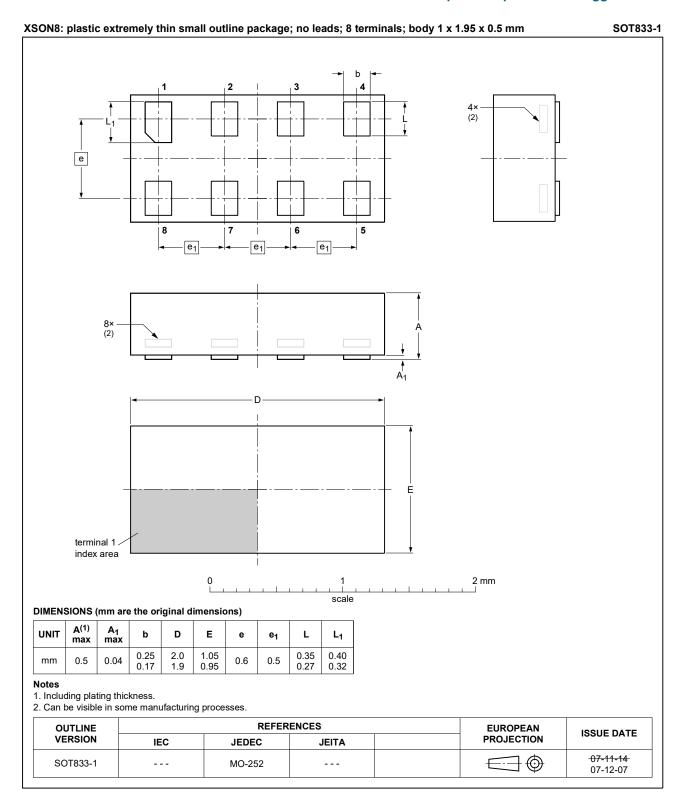


Fig. 15. Package outline SOT833-1 (XSON8)

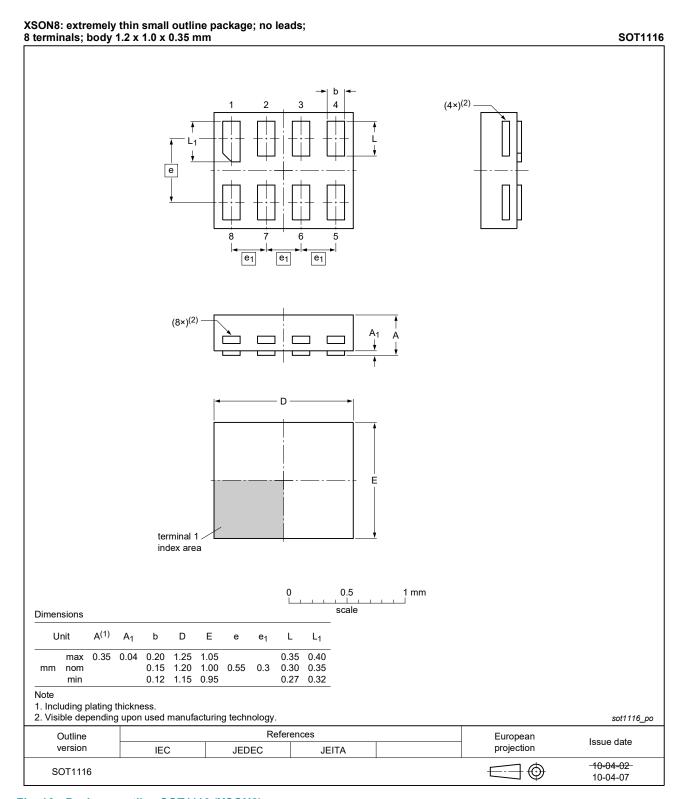


Fig. 16. Package outline SOT1116 (XSON8)

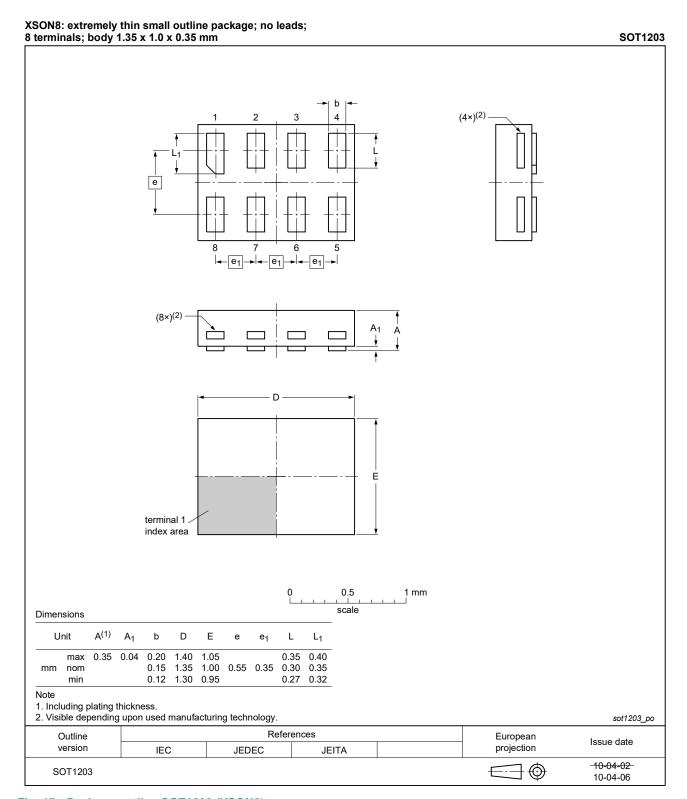


Fig. 17. Package outline SOT1203 (XSON8)

Low-power triple Schmitt trigger inverter

16. Abbreviations

Table 13. Abbreviations

Acronym	Description		
CDM	Charged Device Model		
DUT	Device Under Test		
ESD	ElectroStatic Discharge		
НВМ	Human Body Model		
MM	Machine Model		

17. Revision history

Table 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AUP3G14 v.3	20210208	Product data sheet	-	74AUP3G14 v.2		
Modifications:	guidelines Legal texts Type numb	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type number 74AUP3G14GM (SOT902-2 / XQFN8) removed. Table 5: Derating values for P_{tot} total power dissipation updated. 				
74AUP3G14 v.2	20161006	Product data sheet	-	74AUP3G14 v.1		
Modifications:	Type numb	Type numbers 74AUP3G14GD and 74AUP3G14GF removed.				
74AUP3G14 v.1	20151222	Product data sheet	-	-		

Low-power triple Schmitt trigger inverter

18. 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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