74AUP2G14

Low-power dual Schmitt trigger inverter

Rev. 8 — 31 January 2022

Product data sheet

1. General description

The 74AUP2G14 is a dual inverter with Schmitt-trigger inputs. This device ensures 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 potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- CMOS low power dissipation
- · High noise immunity
- Overvoltage tolerant inputs to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 100 mA per JESD 78B Class II
- Low static power consumption; I_{CC} = 0.9 μA (maximum)
- Complies with JEDEC standards:
 - JESD8-12 (0.8 V to 1.3 V)
 - JESD8-11 (0.9 V to 1.65 V)
 - JESD8-7 (1.2 V to 1.95 V)
 - JESD8-5 (1.8 V to 2.7 V)
 - JESD8-B (2.7 V to 3.6 V)
- ESD protection:
 - HBM JESD22-A114F Class 3A exceeds 5000 V
 - MM JESD22-A115-A exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- 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	Type number Package							
	Temperature range	Name	Description	Version				
74AUP2G14GW	-40 °C to +125 °C	TSSOP6	plastic thin shrink small outline package; 6 leads; body width 1.25 mm	SOT363-2				
74AUP2G14GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	SOT886				
74AUP2G14GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	SOT1115				
74AUP2G14GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	SOT1202				
74AUP2G14GX	-40 °C to +125 °C	X2SON6	plastic thermal enhanced extremely thin small outline package; no leads; 6 terminals; body 1.0 × 0.8 × 0.32 mm	SOT1255-2				

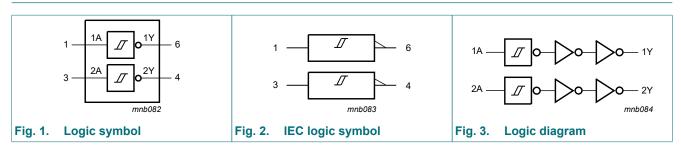
5. Marking

Table 2. Marking

Type number	Marking code[1]					
74AUP2G14GW	рК					
74AUP2G14GM	рК					
74AUP2G14GN	рК					
74AUP2G14GS	рК					
74AUP2G14GX	рК					

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

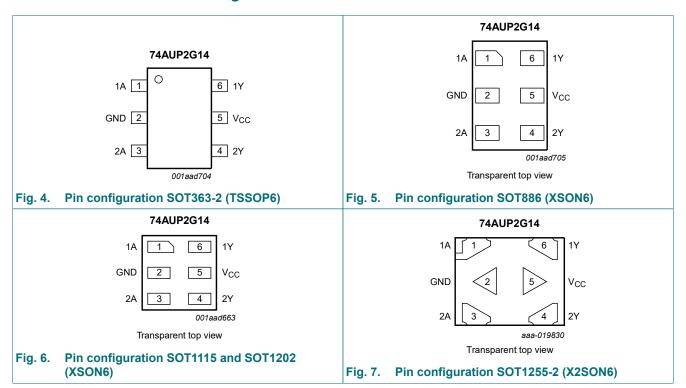
6. Functional diagram



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7. Pinning information

7.1. Pinning



7.2. Pin description

Table 3. Pin description

Symbol	Pin	Description		
1A	1	data input		
GND	ground (0 V)			
2A	3	data input		
2Y	4	data output		
V _{CC} 5 supply voltage		supply voltage		
1Y	6	data output		

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
V _I	input voltage	[1]	-0.5	+4.6	V
lok	output clamping current	V _O < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
lo	output current	V _O = 0 V 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.

For SOT886 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: Ptot derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1255-2 (X2SON6) package: P_{tot} derates linearly with 3.3 mW/K above 75 °C.

10. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		8.0	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 SOT363-2 (TSSOP6) package: Ptot derates linearly with 3.7 mW/K above 83 °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 μA; 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 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	-	-	0.31	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	μΑ
I _{OFF}	power-off leakage current	V_I or V_O = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.2	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	-	-	±0.2	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
Δl _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 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} = -4	10 °C to +85 °C					
V _{OH}	HIGH-level output voltage	$V_I = V_{T+}$ or V_{T-}				
		I _O = -20 μA; V _{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.7 × 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
I _I	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 $V_{O} = 0 \text{ V to } 3.6 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±0.5	μΑ
ΔI_{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	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	50	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -4	10 °C to +125 °C			ı	1	
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 μA; V _{CC} = 0.8 V to 3.6 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
l _l	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
ΔI_{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	μA
Δl _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 3.3 \text{ V}$	-	-	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. 9.

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation	nA to nY; see Fig. 8 [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. 8 [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. 8 [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. 8 [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	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit		
				Min	Typ[1]	Max	Min	Max	Min	Max		
C _L = 5 p	F, 10 pF, 15 pF	and 30 pF										
C _{PD}	power dissipation capacitance	$f_i = 1 \text{ MHz};$ [3 V _I = GND to V _{CC}	3][4]									
		V _{CC} = 0.8 V		-	2.6	-	-	-	-	-	pF	
		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} . [2]
- All specified values are the average typical values over all stated loads.
- 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:

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

f_i = input frequency in MHz;

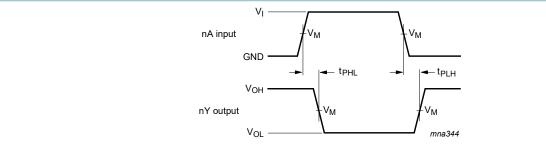
fo = output frequency in MHz;

C_L = load capacitance in pF;

V_{CC} = supply voltage in V;

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

12.1. Waveform and test circuit



Measurement points are given in <u>Table 9</u>.

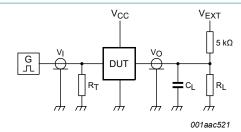
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

Fig. 8. The data input (nA) to output (nY) propagation delays

Table 9. Measurement points

Supply voltage	Output	Input					
V _{CC}	V _M	V _M	VI	$t_r = t_f$			
0.8 V to 3.6 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{CC}	≤ 3.0 ns			

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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_0 of the pulse generator;

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

Fig. 9. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Load	V _{EXT}			
V _{CC}	CL	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 Ω . For measuring propagation delays, set-up and hold times and pulse width R_L = 1 M Ω .

13. Transfer characteristics

Table 11. Transfer characteristics

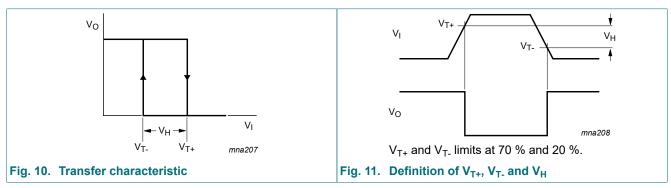
Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 9.

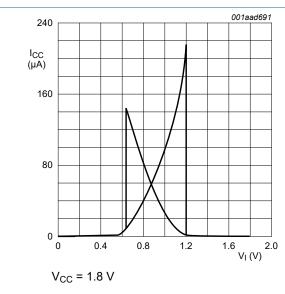
Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Тур	Max	Min	Max	Min	Max	
V _{T+}	positive-going	see <u>Fig. 10</u> and <u>Fig. 11</u>								
	threshold voltage	V _{CC} = 0.8 V	0.30	-	0.60	0.30	0.60	0.30	0.62	V
	Voltage	V _{CC} = 1.1 V	0.53	-	0.90	0.53	0.90	0.53	0.92	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 -	negative-going threshold voltage	see <u>Fig. 10</u> and <u>Fig. 11</u>								
		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

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Symbol	Parameter	Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Тур	Max	Min	Max	Min	Max	
	hysteresis voltage	(V _{T+} - V _{T-}); see <u>Fig. 10</u> , <u>Fig. 11</u> and <u>Fig. 12</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

13.1. Waveforms transfer characteristics





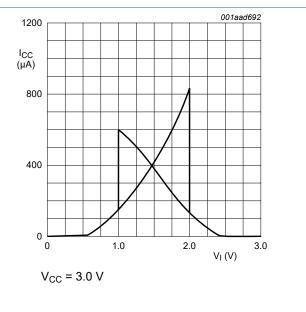


Fig. 12. Typical transfer characteristics

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14. Application information

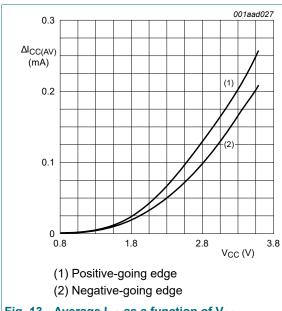
The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

 $P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC}$ 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. 13.

An example of a relaxation circuit using the 74AUP2G14 is shown in Fig. 14.



mna035 Average values for variable a are given in Table 12.

Fig. 13. Average I_{CC} as a function of V_{CC}

Fig. 14. 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

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15. Package outline

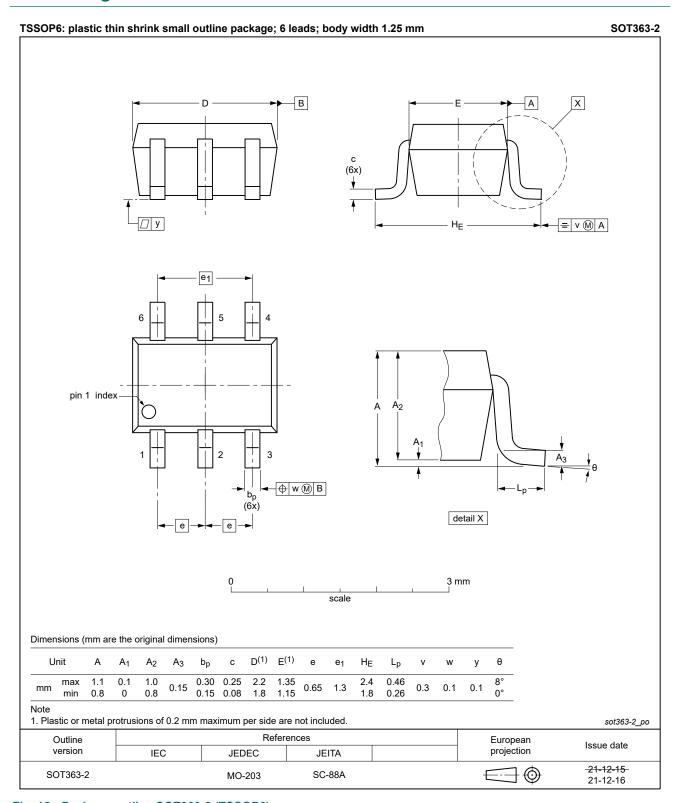


Fig. 15. Package outline SOT363-2 (TSSOP6)

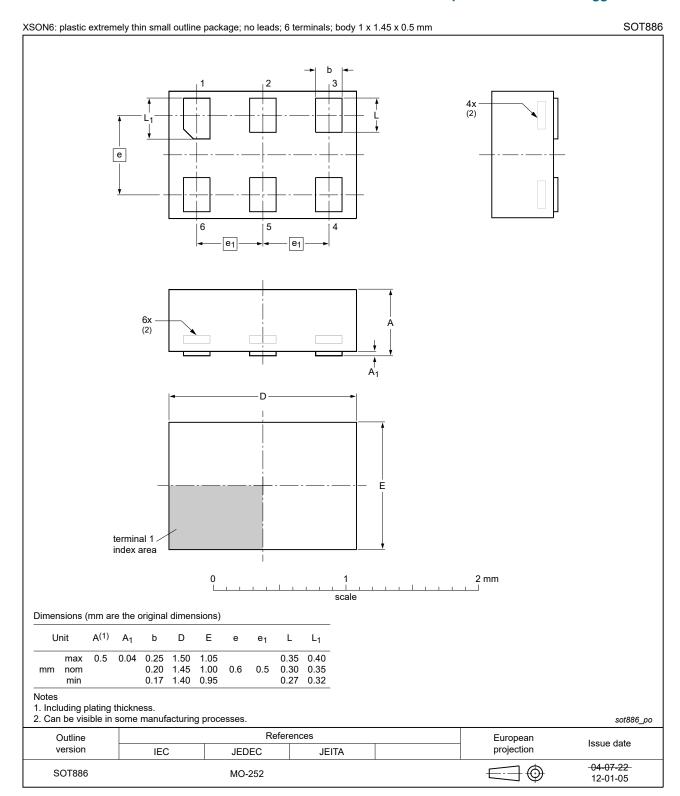


Fig. 16. Package outline SOT886 (XSON6)

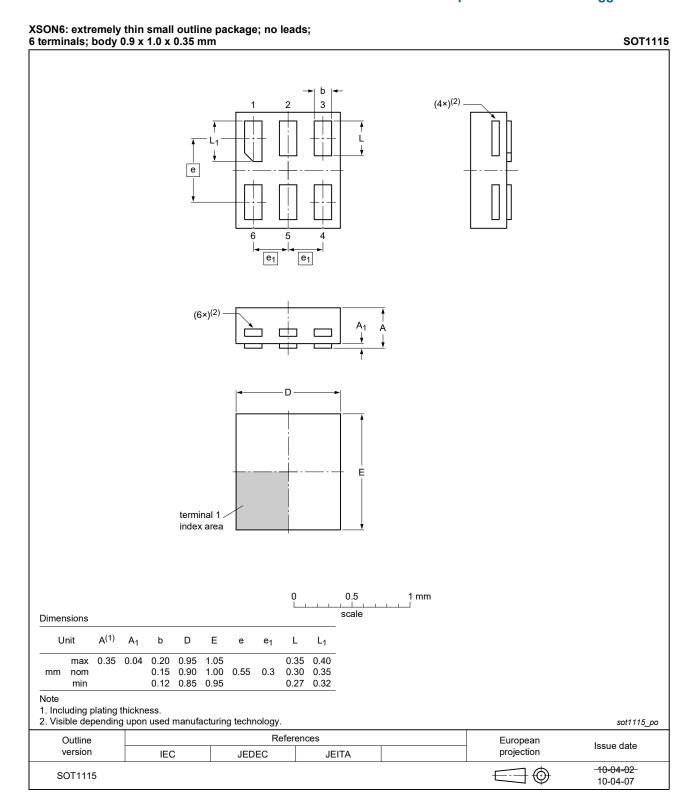


Fig. 17. Package outline SOT1115 (XSON6)

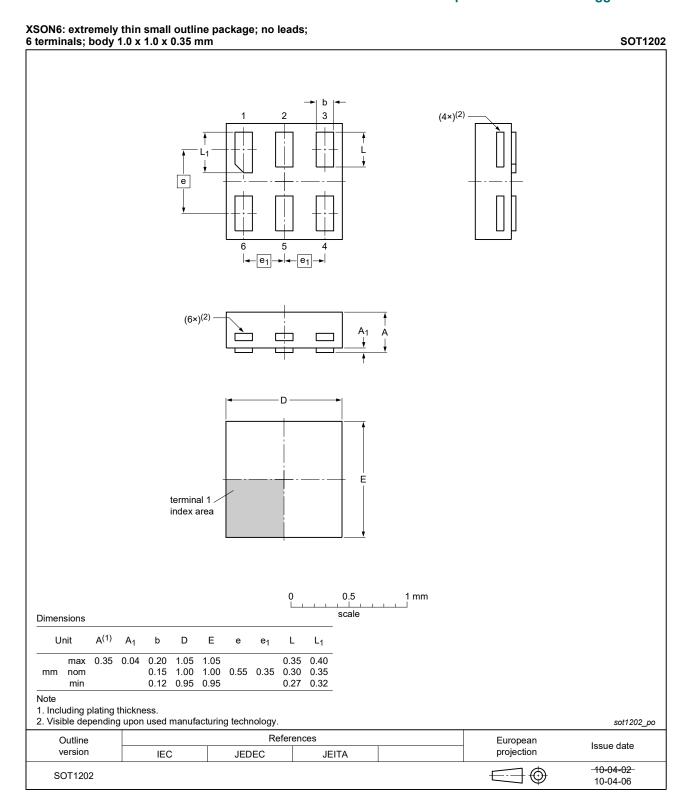


Fig. 18. Package outline SOT1202 (XSON6)

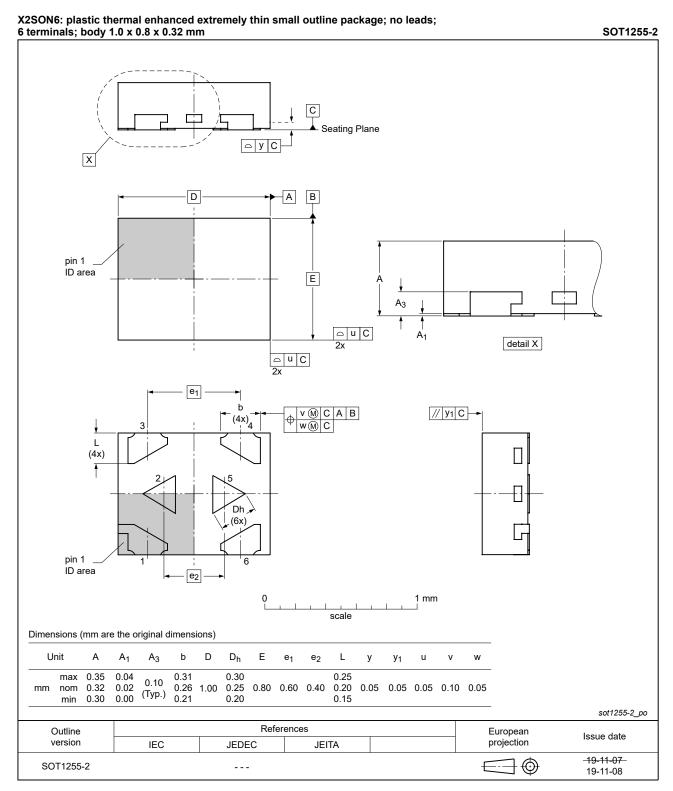


Fig. 19. Package outline SOT1255-2 (X2SON6)

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16. Abbreviations

Table 13. Abbreviations

Acronym	Description
CDM	Charged Device Model
CMOS	Complementary Metal-Oxide Semiconductor
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
74AUP2G14 v.8	20220131	Product data sheet	-	74AUP2G14 v.7
Modifications:	Package SOT	363 (SC-88) changed to \$	SOT363-2 (TSSOP6).	
74AUP2G14 v.7	20210705	Product data sheet	-	74AUP2G14 v.6
Modifications:	SOT1255 (X2Type number	Section 2 updated. SON6) package changed 74AUP2G14GF (SOT891 ting values for P _{tot} total po	/XSON6) removed.	,. 0
74AUP2G14 v.6	20150917	Product data sheet	-	74AUP2G14 v.5
Modifications:	Added type no	umber 74AUP2G14GX (S	OT1255/X2SON6).	
74AUP2G14 v.5	20121204	Product data sheet	-	74AUP2G14 v.4
Modifications:	Package outli	ne drawing of SOT886 (<u>Fi</u>	g. 16) modified.	
74AUP2G14 v.4	20111201	Product data sheet	-	74AUP2G14 v.3
74AUP2G14 v.3	20100722	Product data sheet	-	74AUP2G14 v.2
74AUP2G14 v.2	20090703	Product data sheet	-	74AUP2G14 v.1
74AUP2G14 v.1	20061219	Product data sheet	-	-

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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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