

## Description

The Advanced Ultra Low Power (AUP) CMOS logic family is designed for low power and extended battery life in portable applications.

The AUP1G14 is a single 1-input Schmitt-trigger inverter gate with a standard push-pull output designed for operation over a power supply range of 0.8V to 3.6V. The device is fully specified for partial power down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output preventing damaging current backflow when the device is powered down.

The gate performs the positive Boolean function:

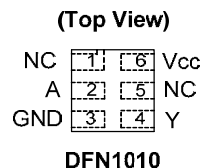
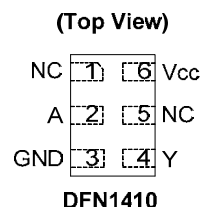
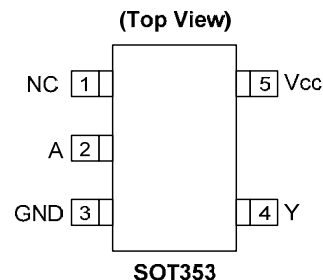
$$Y = \overline{A}$$

## Features

- Advanced Ultra Low Power (AUP) CMOS
- Supply Voltage Range from 0.8V to 3.6V
- ± 4mA Output Drive at 3.0V
- Low Static power consumption
  - I<sub>cc</sub> < 0.9µA
- Low Dynamic Power Consumption
  - C<sub>PD</sub> = 6.2pF (Typical at 3.6V)
- Schmitt Trigger Action at All Inputs Make the Circuit Tolerant for Slower Input Rise and Fall Time. The hysteresis is typically 250mV at V<sub>cc</sub> = 3.0V
- I<sub>OFF</sub> Supports Partial-Power-Down Mode Operation
- ESD Protection Exceeds JESD 22
  - 2000-V Human Body Model (A114-A)
  - Exceeds 1000-V Charged Device Model (C101C)
- Latch-Up Exceeds 100mA per JESD 78, Class II
- Range of Package Options SOT353, DFN1410, and DFN1010
- Leadless packages per JESD30E
  - DFN1010 denoted as X2-DFN1010-6
  - DFN1014 denoted as X2-DFN1014-6
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.  
 2. See <http://www.diodes.com> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.  
 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

## Pin Assignments



## Applications

- Suited for battery and low power needs
- Wide array of products such as:
  - Tablets, E-readers
  - Cell Phones, Personal Navigation / GPS
  - MP3 players, Cameras, Video Recorders
  - PCs ultrabooks, notebooks, netbooks,
  - Computer peripherals, hard drives, CD/DVD ROM
  - TV, DVD, DVR, set top box

[Click here for ordering information, located at the end of datasheet](#)

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**Pin Descriptions**

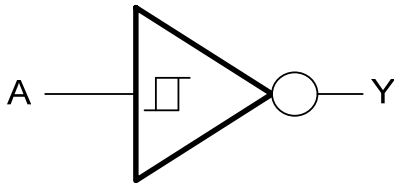
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Pin Name	Function
NC	No Connection
A	Data Input
GND	Ground
Y	Data Output
Vcc	Supply Voltage

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**Logic Diagram**

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**Function Table**

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Inputs	Output
A	Y
H	L
L	H

### Absolute Maximum Ratings (Note 4) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	KV
ESD CDM	Charged Device Model ESD Protection	1	KV
V <sub>CC</sub>	Supply Voltage Range	-0.5 to +4.6	V
V <sub>I</sub>	Input Voltage Range	-0.5 to +4.6	V
V <sub>O</sub>	Voltage applied to output in high or low state	-0.5 to V <sub>CC</sub> +0.5	V
I <sub>IK</sub>	Input Clamp Current V <sub>I</sub> < 0	50	mA
I <sub>OK</sub>	Output Clamp Current (V <sub>O</sub> < 0)	50	mA
I <sub>O</sub>	Continuous Output Current (V <sub>O</sub> = 0 to V <sub>CC</sub> )	±20	mA
I <sub>CC</sub>	Continuous Current Through V <sub>CC</sub>	50	mA
I <sub>GND</sub>	Continuous Current Through GND	-50	mA
T <sub>J</sub>	Operating Junction Temperature	-40 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to 1+50	°C

Note: 4. Stresses beyond the absolute maximum may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.

### Recommended Operating Conditions (Note 5) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit	
V <sub>CC</sub>	Operating Voltage	0.8	3.6	V	
V <sub>I</sub>	Input Voltage	0	3.6	V	
V <sub>O</sub>	Output Voltage	0	V <sub>CC</sub>	V	
I <sub>OH</sub>	High-Level Output Current	V <sub>CC</sub> = 0.8V		-20	μA
		V <sub>CC</sub> = 1.1V		-1.1	mA
		V <sub>CC</sub> = 1.4V		-1.7	
		V <sub>CC</sub> = 1.65V		-1.9	
		V <sub>CC</sub> = 2.3V		-3.1	
		V <sub>CC</sub> = 3.0V		-4	
I <sub>OL</sub>	Low-Level Output Current	V <sub>CC</sub> = 0.8V		20	uA
		V <sub>CC</sub> = 1.1V		1.1	mA
		V <sub>CC</sub> = 1.4V		1.7	
		V <sub>CC</sub> = 1.65V		1.9	
		V <sub>CC</sub> = 2.3V		3.1	
		V <sub>CC</sub> = 3.0V		4	
T <sub>A</sub>	Operating Free-Air Temperature	-40	125	°C	

Note: 5. Unused inputs should be held at V<sub>CC</sub> or Ground.

**Electrical Characteristics** (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Test Conditions	$V_{CC}$	$T_A = +25^\circ\text{C}$		$T_A = -40^\circ\text{C to } +85^\circ\text{C}$		Unit
				Min	Max	Min	Max	
$V_{T+}$	Positive-going input threshold voltage		0.8V	0.4	0.65	0.4	0.65	V
			1.1V	0.53	0.9	0.53	0.9	
			1.4V	0.74	1.11	0.74	1.11	
			1.65V	0.91	1.29	0.91	1.29	
			2.3V	1.37	1.77	1.37	1.77	
$V_{T-}$	Negative-going input threshold voltage		0.8V	0.15	0.4	0.15	0.4	V
			1.1V	0.26	0.65	0.26	0.65	
			1.4V	0.39	0.75	0.39	0.75	
			1.65V	0.47	0.84	0.47	0.84	
			2.3V	0.69	1.04	0.69	1.04	
$\Delta V_T$	Hysteresis ( $V_{T+} - V_{T-}$ )		0.8V	0.07	0.5	0.07	0.5	V
			1.1V	0.08	0.46	0.08	0.46	
			1.4V	0.18	0.56	0.18	0.56	
			1.65V	0.27	0.66	0.27	0.66	
			2.3V	0.53	0.92	0.53	0.92	
$V_{OH}$	High-Level Output Voltage	$I_{OH} = -20\mu\text{A}$	0.8V to 3.6 V	$V_{CC} - 0.1$		$V_{CC} - 0.1$		V
		$I_{OH} = -1.1\text{mA}$	1.1V	$0.75 \times V_{CC}$		$0.7 \times V_{CC}$		
		$I_{OH} = -1.7\text{mA}$	1.4V	1.11		1.03		
		$I_{OH} = -1.9\text{mA}$	1.65V	1.32		1.30		
		$I_{OH} = -2.3\text{mA}$	2.3V	2.05		1.97		
		$I_{OH} = -3.1\text{mA}$		1.9		1.85		
		$I_{OH} = -2.7\text{mA}$	3V	2.72		2.67		
$I_{OH} = -4\text{mA}$	2.6			2.55				
$V_{OL}$	High-Level Input Voltage	$I_{OL} = 20\mu\text{A}$	0.8V to 3.6V		0.1		0.1	V
		$I_{OL} = 1.1\text{mA}$	1.1V		$0.3 \times V_{CC}$		$0.3 \times V_{CC}$	
		$I_{OL} = 1.7\text{mA}$	1.4V		0.31		0.37	
		$I_{OL} = 1.9\text{mA}$	1.65V		0.31		0.35	
		$I_{OL} = 2.3\text{mA}$	2.3V		0.31		0.33	
		$I_{OL} = 3.1\text{mA}$			0.44		0.45	
		$I_{OL} = 2.7\text{mA}$	3V		0.31		0.33	
$I_{OL} = 4\text{mA}$		0.44			0.45			
$I_I$	Input Current	$V_I = \text{GND to } 3.6\text{V}$	0V to 3.6V		$\pm 0.1$		$\pm 0.5$	$\mu\text{A}$
$I_{OFF}$	Power Down Leakage Current	$V_I$ or $V_O = 0\text{V to } 3.6\text{V}$	0		$\pm 0.2$		0.6	$\mu\text{A}$
$\Delta I_{OFF}$	Delta Power Down Leakage Current	$V_I$ or $V_O = 0\text{V to } 3.6\text{V}$	0V to 0.2V		$\pm 0.2$		0.6	$\mu\text{A}$
$I_{CC}$	Supply Current	$V_I = \text{GND or } V_{CC}, I_O = 0$	0.8V to 3.6V		0.5		0.9	$\mu\text{A}$
$\Delta I_{CC}$	Additional Supply Current	Input at $V_{CC} - 0.6\text{V}$	3.3V		40		50	$\mu\text{A}$

**Electrical Characteristics** (cont.) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -40 to 125 °C		Unit
				Min	Max	
V <sub>T+</sub>	Positive-going input threshold voltage		0.8V	0.4	0.65	V
			1.1V	0.53	0.9	
			1.4V	0.74	1.11	
			1.65V	0.91	1.29	
			2.3V	1.37	1.77	
			3.0V	1.61	2.32	
V <sub>T-</sub>	Negative-going input threshold voltage		0.8V	0.15	0.4	V
			1.1V	0.26	0.65	
			1.4V	0.39	0.75	
			1.65V	0.47	0.84	
			2.3V	0.69	1.04	
			3.0V	0.88	1.24	
ΔV <sub>T</sub>	Hysteresis (V <sub>T+</sub> - V <sub>T-</sub> )		0.8V	0.07	0.5	V
			1.1V	0.08	0.46	
			1.4V	0.18	0.56	
			1.65V	0.27	0.66	
			2.3V	0.53	0.92	
			3.0V	0.79	1.31	
V <sub>OH</sub>	High-Level Output Voltage	I <sub>OH</sub> = -20μA	0.8V to 3.6V	V <sub>CC</sub> - 0.11	V	
		I <sub>OH</sub> = -1.1mA	1.1V	0.6 X V <sub>CC</sub>		
		I <sub>OH</sub> = -1.7mA	1.4V	0.93		
		I <sub>OH</sub> = -1.9mA	1.65V	1.17		
		I <sub>OH</sub> = -2.3mA	2.3V	1.77		
		I <sub>OH</sub> = -3.1mA		1.67		
		I <sub>OH</sub> = -2.7mA	3V	2.40		
		I <sub>OH</sub> = -4mA		2.30		
V <sub>OL</sub>	High-Level Input Voltage	I <sub>OL</sub> = 20μA	0.8V to 3.6V	0.11	V	
		I <sub>OL</sub> = 1.1mA	1.1V	0.33 X V <sub>CC</sub>		
		I <sub>OL</sub> = 1.7mA	1.4V	0.41		
		I <sub>OL</sub> = 1.9mA	1.65V	0.39		
		I <sub>OL</sub> = 2.3mA	2.3V	0.36		
		I <sub>OL</sub> = 3.1mA		0.50		
		I <sub>OL</sub> = 2.7mA	3V	0.36		
		I <sub>OL</sub> = 4mA		0.50		
I <sub>I</sub>	Input Current	V <sub>I</sub> = GND to 3.6V	0V to 3.6V	± 0.75	μA	
I <sub>OFF</sub>	Power Down Leakage Current	V <sub>I</sub> or V <sub>O</sub> = 0V to 3.6V	0	± 3.5	μA	
ΔI <sub>OFF</sub>	Delta Power Down Leakage Current	V <sub>I</sub> or V <sub>O</sub> = 0V to 3.6V	0V to 0.2V	± 2.5	μA	
I <sub>CC</sub>	Supply Current	V <sub>I</sub> = GND or V <sub>CC</sub> , I <sub>O</sub> = 0	0.8V to 3.6V	3.0	μA	
ΔI <sub>CC</sub>	Additional Supply Current	Input at V <sub>CC</sub> -0.6V	3.3V	75	μA	

## Switching Characteristics

 $C_L=5\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>pd</sub>	A or B	Y	0.8V		19.9						ns
			1.2V ± 0.1V	2.0	8.5	12.0	2.0	13.1	2.0	13.1	
			1.5V ± 0.1V	1.5	4.3	6.6	1.5	7.1	1.5	7.4	
			1.8V ± 0.15V	1.2	3.7	5.4	1.2	6.0	1.2	6.2	
			2.5V ± 0.2V	1.0	3.0	4.1	1.0	4.5	1.0	4.7	
			3.3V ± 0.3V	0.8	2.8	3.6	0.8	3.9	0.8	4.0	

 $C_L=10\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>pd</sub>	A or B	Y	0.8V		23.4						ns
			1.2V ± 0.1V	2.5	8.7	13.7	2.5	13.8	2.5	13.9	
			1.5V ± 0.1V	2.0	5.0	7.7	2.0	8.2	2.0	8.6	
			1.8V ± 0.15V	1.7	4.2	6.2	1.7	6.7	1.7	7.1	
			2.5V ± 0.2V	1.4	3.6	4.8	1.4	5.2	1.4	5.5	
			3.3V ± 0.3V	1.2	3.3	4.3	1.2	4.5	1.2	4.7	

 $C_L=15\text{pF}$  see Figure 1

Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>pd</sub>	A or B	Y	0.8V		26.9						ns
			1.2V ± 0.1V	2.9	9.2	15.3	2.9	17	2.9	17	
			1.5V ± 0.1V	2.3	5.5	8.6	2.3	9.4	2.3	9.8	
			1.8V ± 0.15V	2.1	4.7	7	2.1	7.7	2.1	8.1	
			2.5V ± 0.2V	1.7	4	5.5	1.7	5.9	1.7	6.2	
			3.3V ± 0.3V	1.5	3.8	4.8	1.5	5.2	1.5	5.4	

 $C_L=30\text{pF}$  see Figure 1

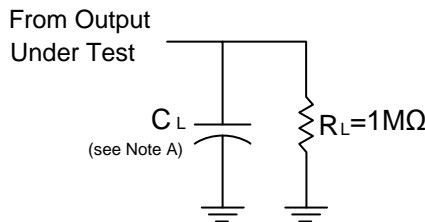
Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>pd</sub>	A or B	Y	0.8V		37.3						ns
			1.2V ± 0.1V	3.9	11.2	20.7	3.9	22.5	3.9	22.5	
			1.5V ± 0.1V	3.2	7.1	11.2	3.2	12.3	3.2	12.9	
			1.8V ± 0.15V	2.9	6.0	9.1	2.9	10.0	2.9	10.6	
			2.5V ± 0.2V	2.5	5.2	6.9	2.5	7.5	2.5	7.9	
			3.3V ± 0.3V	2.3	4.8	6.1	2.3	7.1	2.3	7.4	

**Operating and Package Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

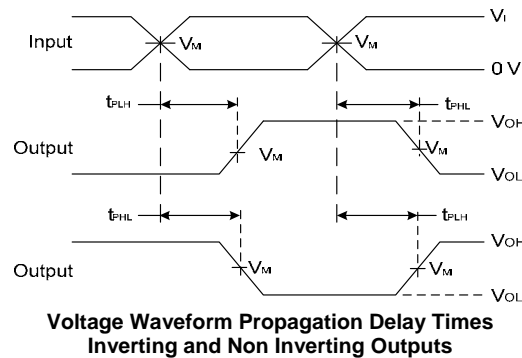
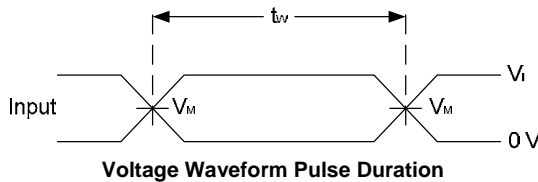
Parameter		Test Conditions	V <sub>CC</sub>	Typ	Unit	
C <sub>pd</sub>	Power Dissipation Capacitance	f = 1MHz No Load	0.8V	6.5	pF	
			1.2V ± 0.1V	6.5		
			1.5V ± 0.1V	6.4		
			1.8V ± 0.15V	6.4		
			2.5V ± 0.2V	6.3		
			3.3V ± 0.3V	6.3		
C <sub>i</sub>	Input Capacitance	V <sub>i</sub> = V <sub>CC</sub> or GND	0V or 3.3V	1.5	pF	
θ <sub>JA</sub>	Thermal Resistance Junction-to-Ambient	SOT353	(Note 6)		371	°C/W
		X2-DFN1410-6		430		
		X2-DFN1010-6		445		
θ <sub>JC</sub>	Thermal Resistance Junction-to-Case	SOT353	(Note 6)		143	°C/W
		X2-DFN1410-6		190		
		X2-DFN1010-6		250		

Notes: 6. Test condition for SOT353, X2-DFN1410-6, and X2-DFN1010-6 devices mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

**Parameter Measurement Information**



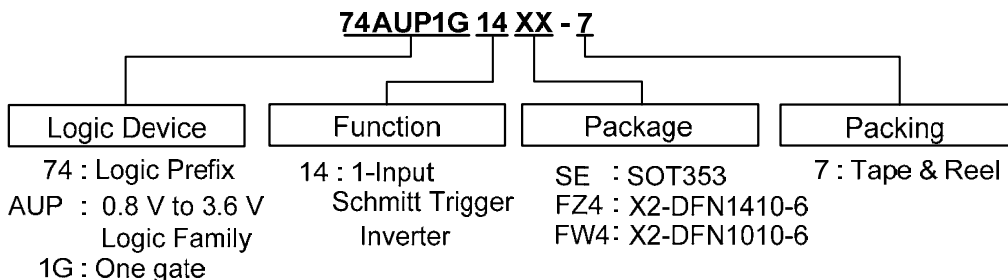
V <sub>CC</sub>	Inputs		V <sub>M</sub>	C <sub>L</sub>
	V <sub>i</sub>	t <sub>r</sub> /t <sub>f</sub>		
0.8V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.2V ± 0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.5V ± 0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.8V ± 0.15V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
2.5V ± 0.2V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
3.3V ± 0.3V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF



**Figure 1. Load Circuit and Voltage Waveforms**

Notes: A. Includes test lead and test apparatus capacitance.  
 B. All pulses are supplied at pulse repetition rate ≤ 10 MHz.  
 C. Inputs are measured separately one transition per measurement.  
 D. t<sub>PLH</sub> and t<sub>PHL</sub> are the same as t<sub>PD</sub>.

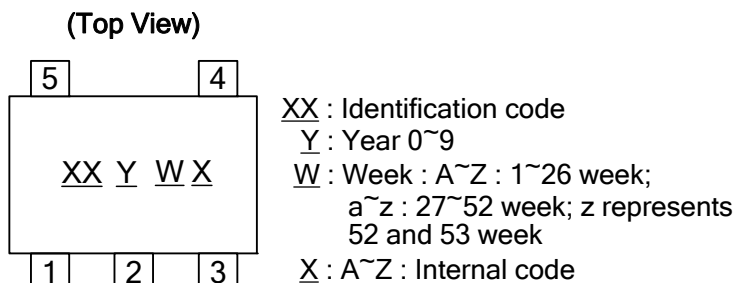
## Ordering Information



Part Number	Package Code	Packaging	7" Tape and Reel	
			Quantity	Part Number Suffix
74AUP1G14SE-7	SE	SOT353	3000/Tape & Reel	-7
74AUP1G14FZ4-7	FZ4	X2-DFN1410-6	5000/Tape & Reel	-7
74AUP1G14FW4-7	FW4	X2-DFN1010-6	5000/Tape & Reel	-7

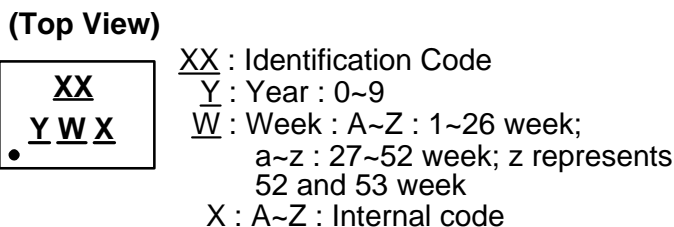
## Marking Information

(1) SOT353



Part Number	Package	Identification Code
74AUP1G14SE	SOT353	XS

(2) X2-DFN1410-6 and X2-DFN1010-6



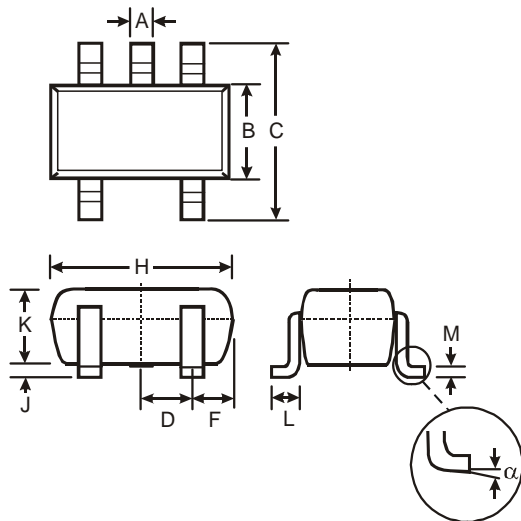
Part Number	Package	Identification Code
74AUP1G14FZ4	X2-DFN1410-6	XS
74AUP1G14FW4	X2-DFN1010-6	XS



**Package Outline Dimensions** (All dimensions in mm.)

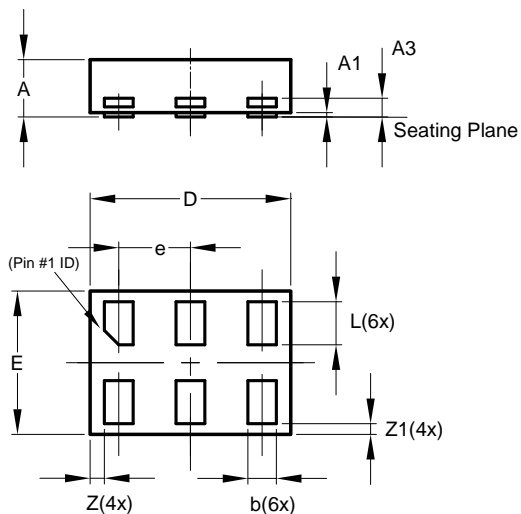
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

(1) SOT353



SOT353			
Dim	Min	Max	Typ
A	0.10	0.30	0.25
B	1.15	1.35	1.30
C	2.00	2.20	2.10
D	0.65 Typ		
F	0.40	0.45	0.425
H	1.80	2.20	2.15
J	0	0.10	0.05
K	0.90	1.00	1.00
L	0.25	0.40	0.30
M	0.10	0.22	0.11
α	0°	8°	-
All Dimensions in mm			

(2) X2-DFN1410-6

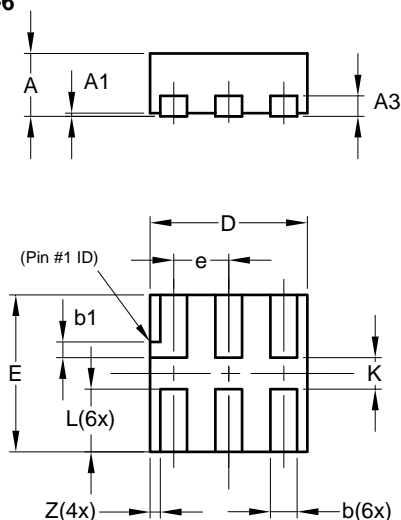


X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			

**Package Outline Dimensions** (cont.) (All dimensions in mm.)

Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

**(3) X2-DFN1010-6**

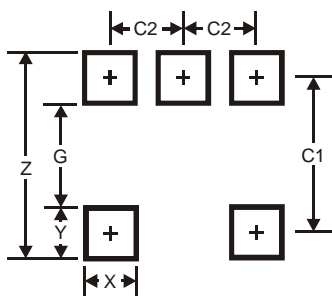


X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065
All Dimensions in mm			

**Suggested Pad Layout**

Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version

**(1) SOT353**



Dimensions	Value (in mm)
Z	2.5
G	1.3
X	0.42
Y	0.6
C1	1.9
C2	0.65

**(2) X2-DFN1410-6**

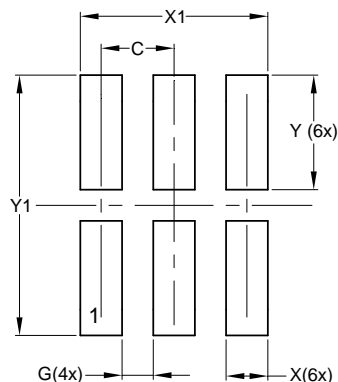


Dimensions	Value (in mm)
C	0.500
G	0.250
X	0.250
X1	1.250
Y	0.525
Y1	1.250

**Suggested Pad Layout (cont.)**

Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version.

**(3) X2-DFN1010-6**



Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

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  - 2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.
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