

Description

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

The 74AUP1G00 is a single 2-input positive NAND 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_{OFF} . The I_{OFF} circuitry disables the output preventing damaging current backflow when the device is powered down. The gate performs the positive Boolean function:

$$Y = \overline{A} \bullet \overline{B} \text{ or } Y = \overline{A} + \overline{B}$$

Features

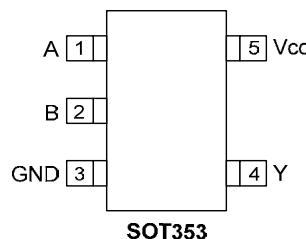
- Advanced Ultra Low Power (AUP) CMOS
- Supply Voltage Range from 0.8V to 3.6V
- ± 4 mA Output Drive at 3.0V
- Low Static power consumption
 - $I_{CC} < 0.9\mu A$
- Low Dynamic Power Consumption
 - $C_{PD} = 6pF$ (Typical at 3.6V)
- Schmitt Trigger Action at All Inputs Make the Circuit Tolerant for Slower Input Rise and Fall Time. The hysteresis is typically 250 mV at $V_{CC} = 3.0V$
- I_{OFF} 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 JEDEC 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.

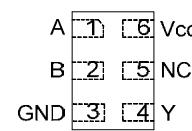
Pin Assignments

(Top View)



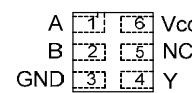
SOT353

(Top View)



DFN1410

(Top View)



DFN1010

Applications

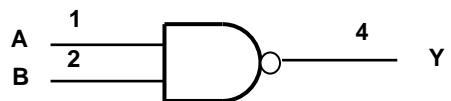
- Suited for battery and low power needs
- Wide array of products such as:
 - Tablets, E-readers
 - Cell Phones, Personal Navigation / GPS
 - MP3 players, Cameras, Video Recorders
 - PCs ultrabooks, notebooks, netbooks,
 - Computer peripherals, hard drives, CD/DVD ROM
 - TV, DVD, DVR, set top box

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

Pin Descriptions

Pin Name	Function
A	Data Input
B	Data Input
GND	Ground
Y	Data Output
V _{CC}	Supply Voltage

Logic Diagram



Function Table

Inputs		Output
A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

Absolute Maximum Ratings (Note 4) (@ $T_A = +25^\circ\text{C}$, unless otherwise specified.)

Symbol	Description	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD CDM	Charged Device Model ESD Protection	1	kV
V_{CC}	Supply Voltage Range	-0.5 to +4.6	V
V_I	Input Voltage Range	-0.5 to +4.6	V
V_O	Voltage Applied to Output in High or Low State	-0.5 to $V_{CC} + 0.5$	V
I_{IK}	Input Clamp Current $V_I < 0$	50	mA
I_{OK}	Output Clamp Current ($V_O < 0$)	50	mA
I_O	Continuous Output Current ($V_O = 0$ to V_{CC})	± 20	mA
I_{CC}	Continuous Current Through V_{CC}	50	mA
I_{GND}	Continuous Current Through GND	-50	mA
T_J	Operating Junction Temperature	-40 to +150	$^\circ\text{C}$
T_{STG}	Storage Temperature	-65 to +150	$^\circ\text{C}$

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

Symbol	Parameter		Min	Max	Unit
V_{CC}	Operating Voltage		0.8	3.6	V
V_I	Input Voltage		0	3.6	V
V_O	Output Voltage		0	V_{CC}	V
I_{OH}	High-Level Output Current	$V_{CC} = 0.8\text{V}$		-20	μA
		$V_{CC} = 1.1\text{V}$		-1.1	mA
		$V_{CC} = 1.4\text{V}$		-1.7	
		$V_{CC} = 1.65\text{V}$		-1.9	
		$V_{CC} = 2.3\text{V}$		-3.1	
		$V_{CC} = 3.0\text{V}$		-4	
I_{OL}	Low-Level Output Current	$V_{CC} = 0.8\text{V}$		20	μA
		$V_{CC} = 1.1\text{V}$		1.1	mA
		$V_{CC} = 1.4\text{V}$		1.7	
		$V_{CC} = 1.65\text{V}$		1.9	
		$V_{CC} = 2.3\text{V}$		3.1	
		$V_{CC} = 3.0\text{V}$		4	
$\Delta t/\Delta V$	Input Transition Rise or Fall Rate	$V_{CC} = 0.8\text{V to } 3.6\text{V}$		200	ns/V
T_A	Operating Free-Air Temperature		-40	125	$^\circ\text{C}$

Note: 5. Unused inputs should be held at V_{CC} or Ground.

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

Symbol	Parameter	Test Conditions	V_{CC}	$T_A = +25^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		Unit
				Min	Max	Min	Max	
V_{IH}	High-Level Input Voltage		0.8V to 1.65V	0.80 X V_{CC}		0.80 X V_{CC}		V
			1.65V to 1.95V	0.65 X V_{CC}		0.65 X V_{CC}		
			2.3V to 2.7V	1.6		1.6		
			3.0V to 3.6V	2.0		2.0		
V_{IL}	Low-Level Input Voltage		0.8V to 1.65V		0.30 X V_{CC}		0.30 X V_{CC}	V
			1.65V to 1.95V		0.35 X V_{CC}		0.35 X V_{CC}	
			2.3V to 2.7V		0.7		0.7	
			3.0V to 3.6V		0.9		0.9	
V_{OH}	High-Level Output Voltage	$I_{OH} = -20\mu\text{A}$	0.8V to 3.6V	$V_{CC} - 0.1$		$V_{CC} - 0.1$		V
		$I_{OH} = -1.1\text{mA}$	1.1V	0.75 X V_{CC}		0.7 X V_{CC}		
		$I_{OH} = -1.7\text{mA}$	1.4V	1.11		1.03		
		$I_{OH} = -1.9\text{mA}$	1.65V	1.32		1.3		
		$I_{OH} = -2.3\text{mA}$	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 X V_{CC}		0.3 X 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	A or B Input $V_I = \text{GND to } 3.6\text{V}$	0 to 3.6V		± 0.1		± 0.5	μA
I_{OFF}	Power Down Leakage Current	V_I or $V_O = 0\text{V to } 3.6\text{V}$	0		0.2		0.6	μA
ΔI_{OFF}	Delta Power Down Leakage Current	V_I or $V_O = 0\text{V to } 3.6\text{V}$	0 V to 0.2 V		0.2		0.6	μA
I_{CC}	Supply Current	$V_I = \text{GND or } V_{CC}, I_O = 0$	0.8 V to 3.6V		0.5		0.9	μA
ΔI_{CC}	Additional Supply Current	One input at $V_{CC} - 0.6\text{V}$ Other inputs at V_{CC} or GND	3.3V		40		50	μA

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

Symbol	Parameter	Test Conditions	V_{CC}	$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Max	
V_{IH}	High-Level Input Voltage		0.8V to 1.65V	0.80 X V_{CC}		V
			1.65V to 1.95V	0.70 X V_{CC}		
			2.3V to 2.7V	1.6		
			3.0V to 3.6V	2.0		
V_{IL}	Low-Level Input Voltage		0.8V to 1.65V		0.25 X V_{CC}	V
			1.65V to 1.95V		0.30 X V_{CC}	
			2.3V to 2.7V		0.7	
			3.0V to 3.6V		0.9	
V_{OH}	High-Level Output Voltage	$I_{OH} = -20\mu\text{A}$	0.8V to 3.6V	$V_{CC} - 0.11$		V
		$I_{OH} = -1.1\text{mA}$	1.1V	0.6 X V_{CC}		
		$I_{OH} = -1.7\text{mA}$	1.4V	0.93		
		$I_{OH} = -1.9\text{mA}$	1.65V	1.17		
		$I_{OH} = -2.3\text{mA}$	2.3V	1.77		
		$I_{OH} = -3.1\text{mA}$		1.67		
		$I_{OH} = -2.7\text{mA}$	3V	2.40		
		$I_{OH} = -4\text{mA}$		2.30		
V_{OL}	High-Level Input Voltage	$I_{OL} = 20\mu\text{A}$	0.8V to 3.6V		0.11	V
		$I_{OL} = 1.1\text{mA}$	1.1V		0.33 X V_{CC}	
		$I_{OL} = 1.7\text{mA}$	1.4V		0.41	
		$I_{OL} = 1.9\text{mA}$	1.65V		0.39	
		$I_{OL} = 2.3\text{mA}$	2.3V		0.36	
		$I_{OL} = 3.1\text{mA}$			0.50	
		$I_{OL} = 2.7\text{mA}$	3V		0.36	
		$I_{OL} = 4\text{mA}$			0.50	
I_I	Input Current	A or B Input, $V_I = \text{GND}$ to 3.6V	0 to 3.6V		± 0.75	μA
I_{OFF}	Power Down Leakage Current	V_I or $V_O = 0\text{V}$ to 3.6V	0		± 3.5	μA
ΔI_{OFF}	Delta Power Down Leakage Current	V_I or $V_O = 0\text{V}$ to 3.6V	0V to 0.2V		± 2.5	μA
I_{CC}	Supply Current	$V_I = \text{GND}$ or V_{CC} , $I_O = 0$	0.8V to 3.6V		3.0	μA
ΔI_{CC}	Additional Supply Current	Input at $V_{CC} - 0.6\text{V}$ Other inputs at V_{CC} or GND	3.3V		75	μA

Switching Characteristics

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

Parameter	From Input	TO OUTPUT	V_{CC}	$T_A = +25^\circ\text{C}$			$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	A or B	Y	0.8 V		17.5						ns
			1.2 V ± 0.1 V	2.5	5.3	11.0	2.1	12.2	2.1	13.5	
			1.5 V ± 0.1 V	2.0	3.8	6.8	1.8	7.8	1.8	8.6	
			1.8 V ± 0.15 V	1.6	3.1	5.3	1.4	6.2	1.4	6.9	
			2.5 V ± 0.2 V	1.3	2.5	4.0	1.1	4.7	1.1	5.2	
			3.3 V ± 0.3 V	1.0	2.2	3.6	1.0	4.2	1.0	4.7	

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

Parameter	From Input	TO OUTPUT	V_{CC}	$T_A = +25^\circ\text{C}$			$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	A or B	Y	0.8V		21.0						ns
			1.2V ± 0.1 V	2.4	6.1	13.0	2.2	14.4	2.2	15.9	
			1.5V ± 0.1 V	2.4	4.4	7.9	2.2	9.2	2.2	10.2	
			1.8V ± 0.15 V	2.0	3.7	6.2	1.9	7.3	1.9	8.1	
			2.5V ± 0.2 V	1.4	3.0	4.7	1.3	5.6	1.3	6.2	
			3.3V ± 0.3 V	1.3	2.8	4.3	1.2	4.9	1.2	5.4	

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

Parameter	From Input	TO OUTPUT	V_{CC}	$T_A = +25^\circ\text{C}$			$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	A or B	Y	0.8V		24.5						ns
			1.2V ± 0.1 V	3.4	6.9	14.8	3.1	16.5	3.1	18.2	
			1.5V ± 0.1 V	2.8	5.0	8.9	2.5	10.5	2.5	11.6	
			1.8V ± 0.15 V	2.0	4.1	7.0	2.0	8.3	2.0	9.2	
			2.5V ± 0.2 V	1.7	3.5	5.3	1.5	6.4	1.5	7.1	
			3.3V ± 0.3 V	1.6	3.2	4.9	1.4	5.7	1.4	6.3	

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

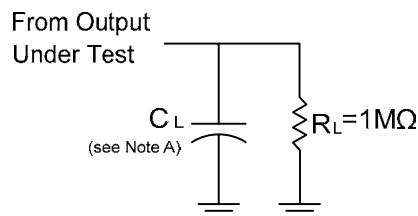
Parameter	From Input	TO OUTPUT	V_{CC}	$T_A = +25^\circ\text{C}$			$T_A = -40^\circ\text{C} \text{ to } +85^\circ\text{C}$		$T_A = -40^\circ\text{C} \text{ to } +125^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	A or B	Y	0.8V		34.8						ns
			1.2V ± 0.1 V	4.6	17.5	22.0	4.1	22.6	4.1	24.9	
			1.5V ± 0.1 V	3.0	6.5	11.8	2.9	14.0	2.9	15.4	
			1.8V ± 0.15 V	2.6	5.4	9.3	2.3	11.1	2.3	12.3	
			2.5V ± 0.2 V	2.4	4.6	7.1	2.1	8.5	2.1	9.4	
			3.3V ± 0.3 V	2.3	2.6	6.5	2.1	7.6	2.1	8.4	

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

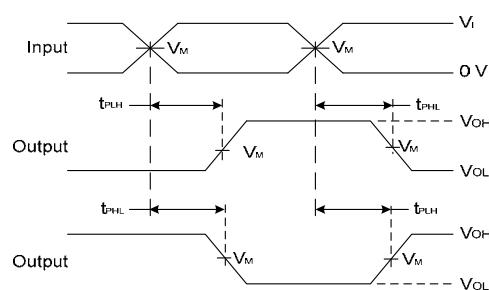
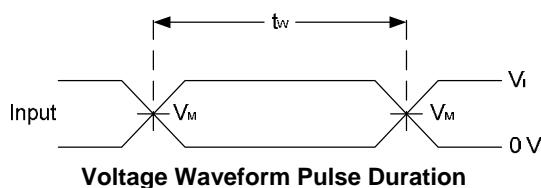
Parameter		Test Conditions		V _{CC}	Typ	Unit
C_{PD}	Power Dissipation Capacitance	$f = 1\text{MHz}$ No Load		0.8V	6.5	pF
				1.2V $\pm 0.1\text{V}$	6.3	
				1.5V $\pm 0.1\text{V}$	6.3	
				1.8V $\pm 0.15\text{V}$	6.2	
				2.5V $\pm 0.2\text{V}$	6.2	
				3.3V $\pm 0.3\text{V}$	6.1	
C_i	Input Capacitance	$V_i = V_{CC}$ or GND		0V or 3.3V	1.5	pF
θ_{JA}	Thermal Resistance Junction-to-Ambient	SOT353	(Note 6)		371	°C/W
		X2-DFN1410-6			430	
		X2-DFN1010-6			445	
θ_{JC}	Thermal Resistance Junction-to-Case	SOT353	(Note 6)		143	°C/W
		X2-DFN1410-6			190	
		X2-DFN1010-6			250	

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

Parameter Measurement Information



V _{CC}	Inputs		V _M	C _L
	V _I	t _r /t _f		
0.8V	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF
1.2V $\pm 0.1\text{V}$	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF
1.5V $\pm 0.1\text{V}$	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF
1.8V $\pm 0.15\text{V}$	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF
2.5V $\pm 0.2\text{V}$	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF
3.3V $\pm 0.3\text{V}$	V _{CC}	$\leq 3\text{ns}$	V _{CC} /2	5, 10, 15, 30 pF

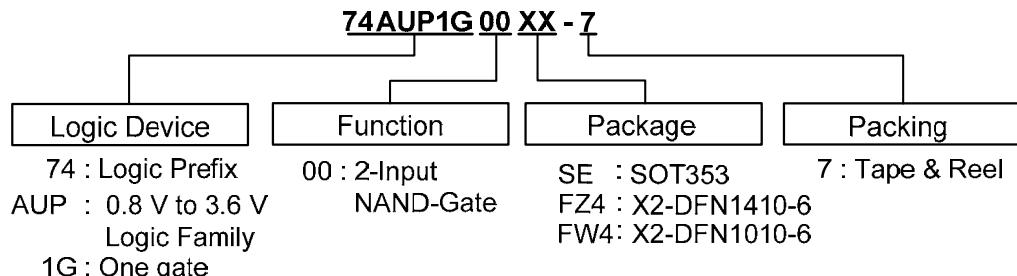


**Voltage Waveform Propagation Delay Times
Inverting and Non Inverting Outputs**

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 $\leq 10\text{ MHz}$.
 - C. Inputs are measured separately one transition per measurement.
 - D. t_{PLH} and t_{PHL} are the same as t_{PD}.

Ordering Information

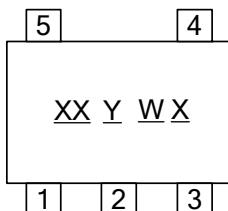


Device	Package Code	Packaging	7" Tape and Reel	
			Quantity	Part Number Suffix
74AUP1G00SE-7	SE	SOT353	3000/Tape & Reel	-7
74AUP1G00FZ4-7	FZ4	X2-DFN1410-6	5000/Tape & Reel	-7
74AUP1G00FW4-7	FW4	X2-DFN1010-6	5000/Tape & Reel	-7

Marking Information

(1) SOT353

(Top View)

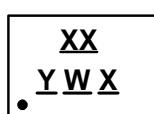


XX : Identification code
Y : Year 0~9
W : Week : A~Z : 1~26 week;
 a~z : 27~52 week; z represents
 52 and 53 week
X : A~Z : Internal code

Part Number	Package	Identification Code
74AUP1G00SE	SOT353	XH

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

(Top View)



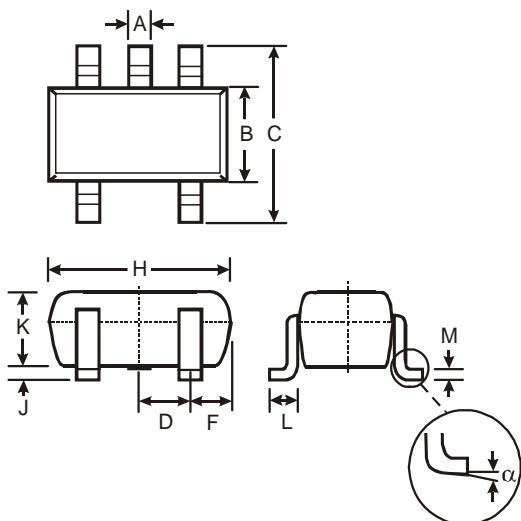
XX : Identification Code
Y : Year : 0~9
W : Week : A~Z : 1~26 week;
 a~z : 27~52 week; z represents
 52 and 53 week
X : A~Z : Internal code

Part Number	Package	Identification Code
74AUP1G00FZ4	X2-DFN1410-6	XH
74AUP1G00FW4	X2-DFN1010-6	XH

Package Outline Dimensions (All dimensions in mm.)

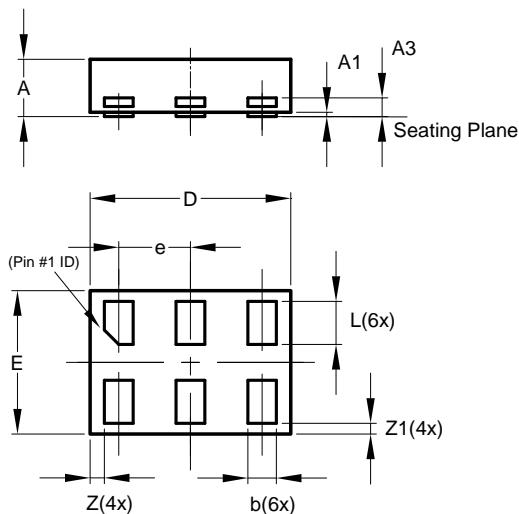
Please see AP02002 at <http://www.diodes.com/datasheets/ap02002.pdf> for latest version.

(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

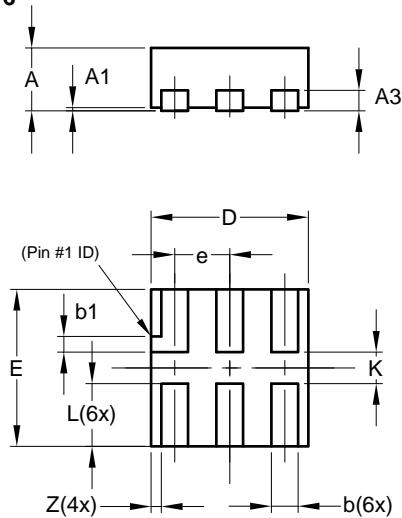


X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			

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



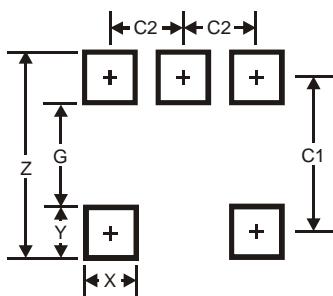
X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065

All Dimensions in mm

Suggested Pad Layout

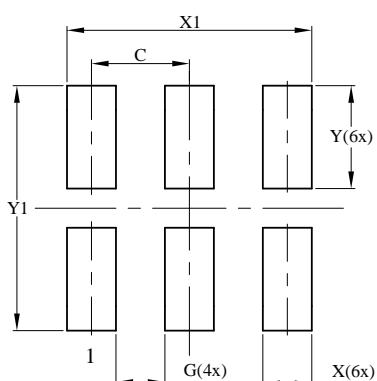
Please see AP02001 at <http://www.diodes.com/datasheets/ap02001.pdf> for the latest version

(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

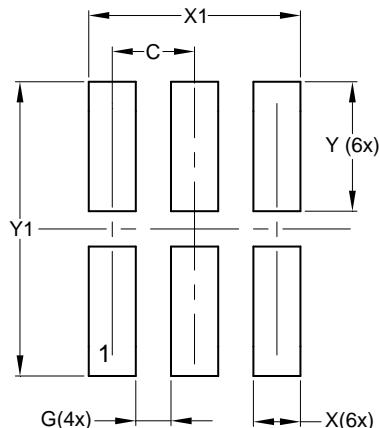


Dimensions	Value (in mm)
C	0.500
G	0.250
X	0.250
X1	1.250
Y	0.525
Y1	1.250

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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ООО "ЛайфЭлектроникс"

"LifeElectronics" LLC

ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибуторских договоров

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помочь разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)
Email: org@lifeelectronics.ru