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74AUP1G07

SINGLE BUFFER/DRIVER WITH OPEN DRAIN OUTPUT

Description

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

The 74AUP1G07 is a single buffer-gate, with an open drain 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:

$$Y = A$$

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)

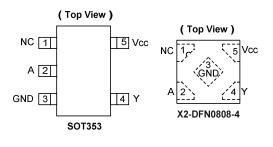
- Schmitt Trigger Action at all inputs makes the circuit tolerant for slower input rise and fall time. The hysteresis is typically 250 mV at V_{CC} = 3.0V.
- I_{OFF} Supports Partial-Power-Down Mode Operation
- ESD Protection Exceeds JESD 22

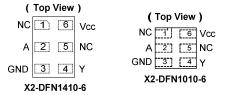
2000-V Human Body Model (A114)

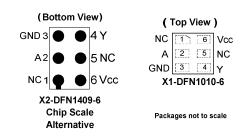
Exceeds 1000-V Charged Device Model (C101)

- Latch-Up Exceeds 100mA per JESD 78, Class I
- Leadless Packages Named per JESD30E
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Pin Assignments







Applications

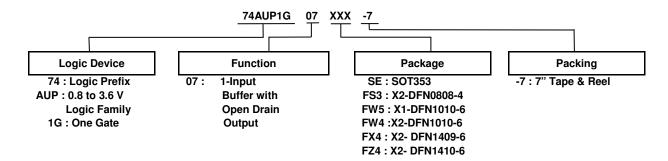
- Suited for Battery and Low Power Needs
- Wide array of products such as:
 - Tablets, E-readers
 - Cell Phones, Personal Navigation / GPS
 - MP3 Players, Cameras, Video Recorders
 - PCs, Ultrabooks, Notebooks, Netbooks
 - Computer Peripherals, Hard Drives, SSDs, CD/DVD ROMs
 - TVs, DVDs, DVRs, Set-Top Boxes

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/quality/lead_free.html 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.



Ordering Information



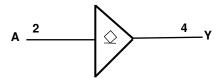
Device	Package	Package	Package	7" Tape	and Reel
Device	Code	(Notes 4 & 5)	Size	Quantity	Part Number Suffix
74AUP1G07SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65 mm lead pitch	3,000/Tape & Reel	-7
74AUP1G07FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8 mm x 0.35mm 0.5 mm pad pitch (diamond)	5,000/Tape & Reel	-7
74AUP1G07FW5-7	FW5	X1-DFN1010-6	1.0mm x 1.0mm x 0.5mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G07FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G07FX4-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5 mm pad pitch	5,000/Tape & Reel	-7
74AUP1G07FZ4-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5 mm pad pitch	5,000/Tape & Reel	-7

Notes: 4. Pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at http://www.diodes.com/datasheets/ap02001.pdf.

Pin Descriptions

Pin Name	Function
NC	No Connection
Α	Data Input
GND	Ground
Υ	Data Output
V _{CC}	Supply Voltage

Logic Diagram



Function Table

Inputs	Output
Α	Υ
Н	Z
L	L

^{5.} The taping orientation is located on our website at http://www.diodes.com/datasheets/ap02007.pdf.



Absolute Maximum Ratings (Notes 6 & 7) (@T_A = +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 _{CC}	Supply Voltage Range	-0.5 to +4.6	V
VI	Input Voltage Range	-0.5 to +4.6	V
Vo	Voltage Applied to Output in High or Low State	-0.5 to +4.6	V
I _{IK}	Input Clamp Current V _I < 0	50	mA
lok	Output Clamp Current (V _O < 0)	50	mA
lo	Continuous Output Current (V _O = 0 to V _{CC})	±20	mA
Icc	Continuous Current through V _{CC}	50	mA
I _{GND}	Continuous Current through GND	-50	mA
TJ	Operating Junction Temperature	-40 to +150	∞
T _{STG}	Storage Temperature	-65 to +150	℃

Notes:

Recommended Operating Conditions (Note 8) (@T_A = +25 ℃, unless otherwise specified.)

Symbol	Par	ameter	Min	Max	Unit
V_{CC}	Operating Voltage		8.0	3.6	V
VI	Input Voltage		0	3.6	V
Vo	Output Voltage		0	3.6	V
		$V_{CC} = 0.8V$	_	20	μΑ
	Low-Level Output Current	V _{CC} = 1.1V		1.1	
la.		$V_{CC} = 1.4V$	_	1.7	
loL		V _{CC} = 1.65V	_	1.9	mA
		$V_{CC} = 2.3V$	_	3.1	
		$V_{CC} = 3.0V$	_	4	
Δt/ΔV	Input Transition Rise or Fall Rate	$V_{CC} = 0.8V \text{ to } 3.6V$		200	ns/V
T _A	Operating Fre	e-Air Temperature	-40	+125	℃

Note:

8. Unused inputs should be held at V_{CC} or Ground.

^{6.} 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.

^{7.} Forcing the maximum allowed voltage could cause a condition exceeding the maximum current or conversely forcing the maximum current could cause a condition exceeding the maximum voltage. The ratings of both current and voltage must be maintained within the controlled range.



Electrical Characteristics (@T_A = +25 ℃, unless otherwise specified.)

Cumabal	Parameter	Test Conditions	v	T _A = -	-25℃	T _A = -40 ℃	c to +85℃	Unit	
Symbol	Parameter	rest Conditions	Vcc	Min	Max	Min	Max	Unit	
		_	0.8V to 1.65V	0.80 x V _{CC}	_	0.80 x V _{CC}	_		
V _{IH}	High-Level Input	_	1.65V to 1.95V	0.65 x V _{CC}	_	0.65 x V _{CC}	_	V	
VIH	Voltage	_	2.3V to 2.7V	1.6	_	1.6	_	V	
			3.0V to 3.6V	2.0	_	2.0	_		
			0.8V to 1.65V		0.30 x V _{CC}		0.30 x V _{CC}		
V	V _{IL} Low-Level Input	_	1.65V to 1.95V	_	0.35 x V _{CC}	_	0.35 x V _{CC}	V	
VIL	Voltage	_	2.3V to 2.7V	_	0.7	_	0.7	V	
		3.0V to 3.6V	_	0.9		0.9			
		$I_{OL} = 20\mu A$	0.8V to 3.6V	_	0.1	_	0.1		
	I _{OL} = 1.1mA	1.1V	_	0.3 x V _{CC}	_	0.3 x V _{CC}			
	Low-Level	I _{OL} = 1.7mA	1.4V	_	0.31	_	0.37	v	
.,		I _{OL} = 1.9mA	1.65V	_	0.31	_	0.35		
V _{OL}	Output Voltage	I _{OL} = 2.3mA	0.01/	_	0.31	_	0.33	V	
		I _{OL} = 3.1mA	2.3V	_	0.44	_	0.45		
		$I_{OL} = 2.7 \text{mA}$	01/	_	0.31	_	0.33		
		I _{OL} = 4mA	3V	_	0.44	_	0.45		
II	Input Current	A or B Input V _I = GND to 3.6V	0V to 3.6V	_	± 0.1	_	± 0.5	μΑ	
loff	Power Down Leakage Current	V _I or V _O = 0V to 3.6V	0	_	± 0.2	_	± 0.5	μΑ	
loz	Z State Leakage Current	$V_O = 3.6V$ $V_i = 3.6V$	3.6V	_	± 0.2		± 0.5	μΑ	
Δl _{OFF}	Delta Power Down Leakage Current	V_1 or $V_0 = 0V$ to 3.6V	0V to 0.2V	_	0.2	_	0.6	μΑ	
Icc	Supply Current	$V_I = GND \text{ or } V_{CC}, I_{O}=0$	0.8V to 3.6V	_	0.5	_	0.9	μΑ	
ΔI _{CC}	Additional Supply Current	Input at V _{CC} -0.6V	3.3V	_	40	_	50	μA	



Electrical Characteristics (continued) (@T_A = +25 °C, unless otherwise specified.)

Cumbal	Parameter	Test Conditions	V	T _A = -40 °C	to +125℃	Unit	
Symbol	Parameter	rest Conditions	Vcc	Min	Max	Unit	
		_	0.8V to 1.65V	0.80 x V _{CC}	_		
V _{IH}	High-Level Input	_	1.65V to 1.95V	0.70 x V _{CC}	_	$]$ $_{V}$	
VIH	Voltage	_	2.3V to 2.7V	1.6	_] v	
		_	3.0V to 3.6V	2.0	_		
		_	0.8V to 1.65V		0.25 x V _{CC}		
V	V _{IL} Low-Level Input Voltage	_	1.65V to 1.95V		0.35 x V _{CC}	V	
V IL		_	2.3V to 2.7V	_	0.7]	
	_	3.0V to 3.6V		0.9			
		$I_{OL} = 20\mu A$	0.8V to 3.6V	_	0.11		
		I _{OL} = 1.1mA	1.1V	_	0.3 x V _{CC}	1	
		I _{OL} = 1.7mA	1.4V	_	0.41	1	
.,	Low-Level Output Voltage	I _{OL} = 1.9mA	1.65V	_	0.39	, , , , , , , , , , , , , , , , , , ,	
V _{OL}		I _{OL} = 2.3mA	0.01/	_	0.36	V	
		I _{OL} = 3.1mA	2.3V	_	0.50		
		$I_{OL} = 2.7 \text{mA}$	0)/	_	0.36		
		I _{OL} = 4mA	- 3V	_	0.50		
II	Input Current	A or B Input V _I = GND to 3.6V	0V to 3.6V	_	± 0.75	μΑ	
l _{OFF}	Power Down Leakage Current	V_I or $V_O = 0V$ to 3.6V	0		± 3.5	μA	
loz	Z State Leakage Current	$V_O = 3.6V$ $V_i = 3.6V$	3.6V	_	± 1.5	μA	
Δl _{OFF}	Delta Power Down Leakage Current	V_1 or $V_0 = 0V$ to 3.6V	0V to 0.2V		± 2.5	μΑ	
Icc	Supply Current	$V_I = GND \text{ or } V_{CC}, I_O = 0$	0.8V to 3.6V	_	3.0	μA	
ΔI _{CC}	Additional Supply Current	Input at V _{CC} -0.6V	3.3V		75	μA	



Switching Characteristics

C_L = 5pF, See Figure 1

Parameter	From Input	TO OUTPUT	V _{CC}	Т	T _A = +25 °C			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C	
			V CC	Min	Тур	Max	Min	Max	Min	Max	Unit
			V8.0	_	11.6	_	_	_	_		
		Y	1.2V ± 0.1V	2.0	4.1	7.5	2.0	9.1	2.0	10.0	- ns
			1.5V ± 0.1V	1.5	3.0	5.1	1.5	6.1	1.5	6.7	
t _{pd}	Α		1.8V ± 0.15V	1.2	2.7	4.0	1.2	5.0	1.2	5.5	
			2.5V ± 0.2V	1.0	2.3	3.2	1.0	4.0	1.0	4.4	
			$3.3V \pm 0.3V$	0.8	2.2	2.8	0.8	3.3	0.8	3.6	

C_L = 10pF, See Figure 1

Parameter	From Input	TO OUTPUT	V	T _A = +25 ℃			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C		Unit
			Vcc	Min	Тур	Max	Min	Max	Min	Max	Oilit
			0.8V	_	14.7	_	_	_	_	_	
	А	Υ	1.2V ± 0.1V	2.5	5.1	9.0	2.5	11.2	2.5	12.3	ns
4 .			1.5V ± 0.1V	2.0	3.8	6.1	2.0	7.4	2.0	8.1	
t _{pd}			1.8V ± 0.15V	1.7	3.6	4.8	1.7	6.1	1.7	6.7	
			$2.5V \pm 0.2V$	1.4	3.3	4.5	1.4	4.8	1.4	5.3	
			$3.3V \pm 0.3V$	1.2	3.1	4.2	1.2	4.5	1.2	5.0	

C_L = 15pF, See Figure 1

Parameter	From Input	TO OUTPUT	V _{CC}	Т	T _A = +25 °C			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C	
			V CC	Min	Тур	Max	Min	Max	Min	Max	Unit
			V8.0	_	17.7	_	_	_	_	_	
	А	Υ	1.2V ± 0.1V	2.9	6.1	10.4	2.9	13.1	2.9	14.5	ns
			1.5V ± 0.1V	2.3	4.5	6.8	2.3	8.6	2.3	9.4	
t _{pd}			1.8V ± 0.15V	2.1	4.4	6.7	2.1	7.8	2.1	8.6	
			2.5V ± 0.2V	1.7	4.2	5.9	1.7	6.8	1.7	6.9	
			3.3V ± 0.3V	1.5	4.0	5.7	1.5	6.1	1.5	6.7	

 $C_L = 30pF$, See Figure 1

Parameter	From Input	TO OUTPUT	V	Т	T _A = +25 ℃			T _A = -40 °C to +85 °C		T _A = -40 °C to +125 °C	
raiailletei			Vcc	Min	Тур	Max	Min	Max	Min	Max	Unit
			V8.0	_	24.6	_	_	_	_	_	
			1.2V ± 0.1V	3.9	9.0	15.6	3.9	18.8	3.9	20.7] _
	Α	V	1.5V ± 0.1V	3.2	7.5	13.4	3.2	13.7	3.2	13.7	
t _{pd}	А	Ť	1.8V ± 0.15V	2.9	6.8	12.4	2.9	12.6	2.9	12.6	ns
			2.5V ± 0.2V	2.5	6.5	10.7	2.5	10.9	2.5	12.1	
			$3.3V \pm 0.3V$	2.3	6.4	9.7	2.3	10.4	2.3	11.4	



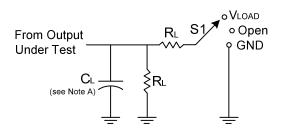
Operating and Package Characteristics (@T_A = +25 ℃, unless otherwise specified.)

	Parameter	Test Conditio	ns	Vcc	Тур	Unit
				0.8V	2.6	
				1.2V ± 0.1V	2.8	
_	Power Dissipation	f = 1MH	lz	1.5V ± 0.1V	2.9	, r
C_{pd}	Capacitance	No Loa	d	1.8V ± 0.15V	3.1	pF
				2.5V ± 0.2V	3.6	
				3.3V ± 0.3V	4.2	
Ci	Input Capacitance	$V_i = V_{CC}$ or	GND	0V or 3.3V	1.5	pF
		SOT353		_	371	
	Thermal Resistance	X2-DFN0808-4	(Note 9)	_	430	
		X1-DFN1010-6		_	435	00.444
θ_{JA}	Junction-to-Ambient	X2-DFN1010-6		_	445	°C/W
		X2-DFN1409-6		_	470	
		X2-DFN1410-6		_	460	
		SOT353		_	143	
		X2-DFN0808-4		_	240	
	Thermal Resistance	X1-DFN1010-6	(NI-+- O)	_	250	00.444
θ_{JC}	Junction-to-Case	X2-DFN1010-6	(Note 9)	_	250	°C/W
		X2-DFN1409-6		_	275	1
		X2-DFN1410-6		_	265	

Note: 9. Test condition for each of the six package types: Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

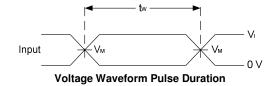


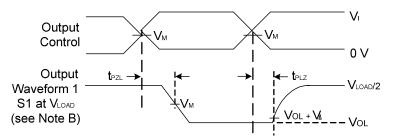
Parameter Measurement Information



TEST	S1	R_L
t _{PLZ} /t _{PZL}	Vload	5kΩ

V	Inputs		V	v	•	
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	V Δ
0.8V	V _{CC}	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.1V
1.2V±0.1V	Vcc	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.1V
1.5V±0.1V	Vcc	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.1V
1.8V±0.15V	Vcc	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.15V
2.5V±0.2V	Vcc	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.15V
3.3V±0.3V	Vcc	≤3ns	V _{CC} /2	2 X V _{CC}	5, 10, 15, 30pF	0.3V





Voltage Waveform Enable and Disable Times Low and High Level Enabling

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 MHz.
- C. Inputs are measured separately one transition per measurement.
- D. For the open drain device the specified propagation delay t_{PD} is the same as t_{PLZ} and t_{PZL}.



Marking Information

(1) SOT353

(Top View)

5 4 XX Y WX

2

3

XX: Identification code

<u>Y</u>: Year 0~9

 \underline{W} : Week: A $^{\sim}$ Z: 1 $^{\sim}$ 26 week; a~z: 27~52 week; z represents 52 and 53 week

 \underline{X} : $A^{\sim}Z$: Internal code

Part Number	Package	Identification Code
74AUP1G07SE-7	SOT353	XN

(2) X2-DFN0808-4, X1-DFN1010-6, X2-DFN1010-6, X2-DFN1409-6 and X2-DFN1410-6

(Top View)

XX XX: Identification Code

Y: Year: 0~9

 $\overline{\mathbf{W}}$: Week : A~Z : 1~26 week;

a~z: 27~52 week; z represents 52 and 53 week

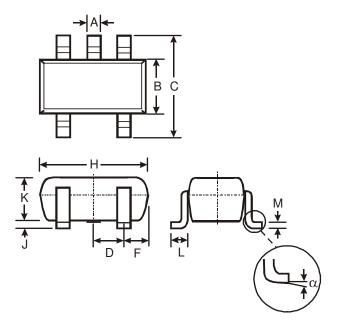
X: A~Z: Internal code

Part Number	Package	Identification Code
74AUP1G07FS3-7	X2-DFN0808-4	YN
74AUP1G07FW5-7	X1-DFN1010-6	Q6
74AUP1G07FW4-7	X2-DFN1010-6	XN
74AUP1G07FX4-7	X2-DFN1409-6	HE
74AUP1G07FZ4-7	X2-DFN1410-6	XN

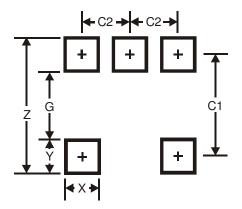


SOT353 Package Outline Dimensions and Suggested Pad Layout

 $Please see AP02002 \ at \ http://www.diodes.com/datasheets/ap02002.pdf \ for \ the \ latest \ version.$



SOT353				
Dim	Min	Max	Тур	
Α	0.10	0.30	0.25	
В	1.15	1.35	1.30	
С	2.00	2.20	2.10	
D		0.65 Typ		
F	0.40	0.45	0.425	
Н	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	
М	0.10	0.22	0.11	
α	0°	8°	-	
All Dimensions in mm				

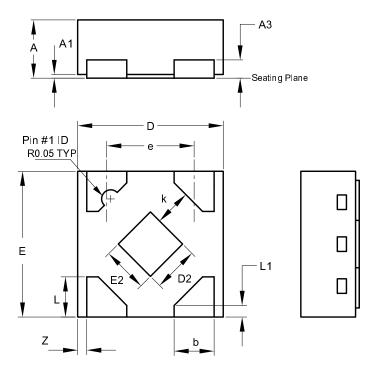


Dimensions	Value (in mm)
Z	2.5
G	1.3
X	0.42
Υ	0.6
C1	1.9
C2	0.65

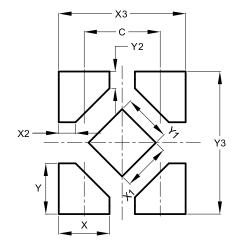


X2-DFN0808-4 Package Outline Dimensions and Suggested Pad Layout

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



X2-DFN0808-4					
Dim	Min	Max	Тур		
Α	0.25	0.35	0.30		
A1	0	0.04	0.02		
A3	-	-	0.13		
b	0.17	0.27	0.22		
D	0.75	0.85	0.80		
D2	0.15	0.35	0.25		
Е	0.75	0.85	0.80		
E2	0.15	0.35	0.25		
е	-	-	0.48		
K	0.20	-	-		
L	0.17	0.27	0.22		
L1	0.02	0.12	0.07		
Z	-	-	0.05		
All Dimensions in mm					

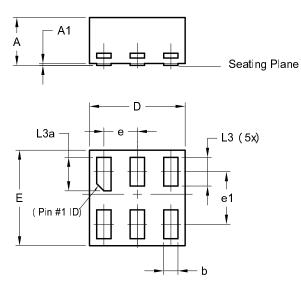


Dimensions	Value
O	0.480
X	0.320
X1	0.300
X2	0.106
Х3	0.800
Υ	0.320
Y1	0.300
Y2	0.106
Y3	0.900

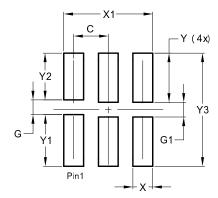


X1-DFN1010-6 (Type B) Package Outline Dimensions and Suggested Pad Layout

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



X1-DFN1010-6					
Dim	(Type B) Dim Min Max Typ				
A	-	0.50	0.39		
A 1	-	0.04	-		
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е	0.35 BSC				
e1	0.55 BSC				
L3	0.27	0.30	0.30		
L3a	0.32	0.40	0.35		
All Dimensions in mm					

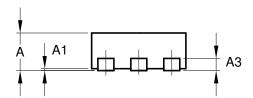


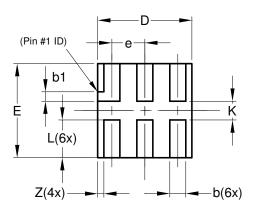
Dimensions	Value	
Difficusions	(in mm)	
С	0.350	
G	0.150	
G1	0.150	
Х	0.200	
X1	0.900	
Υ	0.500	
Y1	0.525	
Y2	0.475	
Y3	1.150	



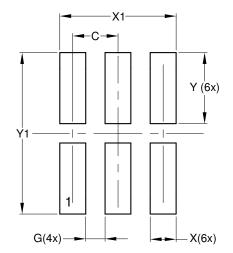
X2-DFN1010-6 Package Outline Dimensions and Suggested Pad Layout

 $Please see AP02002 \ at \ http://www.diodes.com/datasheets/ap02002.pdf \ for \ the \ latest \ version.$





)	X2-DFN1010-6				
Dim	Min	Max	Тур		
Α	_	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		
е	_	_	0.35		
L	0.35	0.45	0.40		
K	0.15	_	_		
Z	_	_	0.065		
All Dimensions in mm					

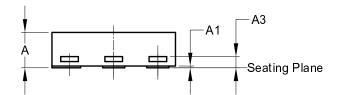


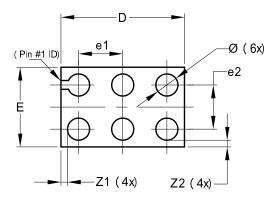
Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Υ	0.550
Y1	1.250



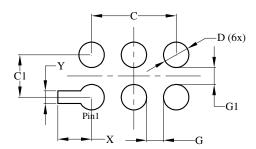
X2-DFN1409-6 Package Outline Dimensions and Suggested Pad Layout

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





X2-DFN1409-6				
Dim	Min	Max	Тур	
Α	-	0.40	0.39	
A 1	0	0.05	0.02	
A3	-	-	0.13	
Ø	0.20	0.30	0.25	
D	1.35	1.45	1.40	
Е	0.85	0.95	0.90	
e1	-	-	0.50	
e2	-	1	0.50	
Z 1	-	-	0.075	
Z2	-	-	0.075	
All Dimensions in mm				

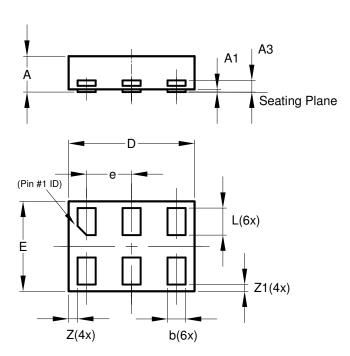


Dimensions	Value (in mm)	
С	1.000	
C1	0.500	
D	0.300	
G	0.200	
G1	0.200	
X	0.400	
Υ	0.150	

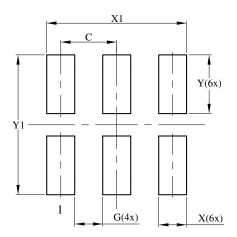


X2-DFN1410-6 Package Outline Dimensions and Suggested Pad Layout

 $Please see AP02002 \ at \ http://www.diodes.com/datasheets/ap02002.pdf \ for \ the \ latest \ version.$



X2-DFN1410-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A 1	0.00	0.05	0.02	
A3	_	_	0.13	
b	0.15	0.25	0.20	
D	1.35	1.45	1.40	
Е	0.95	1.05	1.00	
е	_		0.50	
L	0.25	0.35	0.30	
Z			0.10	
Z 1	0.045	0.105	0.075	
All Dimensions in mm				



Dimensions	Value	
2	(in mm)	
С	0.500	
G	0.250	
X	0.250	
X1	1.250	
Υ	0.525	
Y1	1.250	

February 2015

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