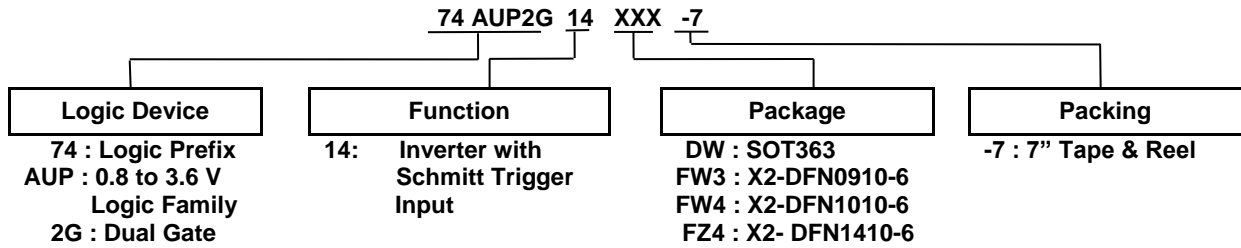


## Ordering Information



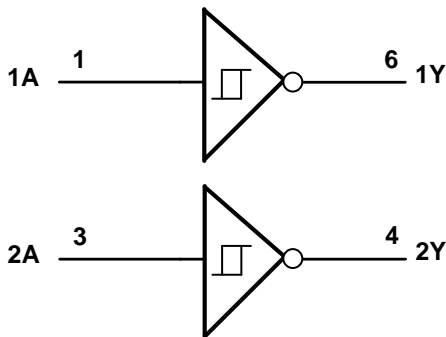
Device	Package Code	Package (Notes 4 & 5)	Package Size	7" Tape and Reel	
				Quantity	Part Number Suffix
74AUP2G14DW-7	DW	SOT363	2.0mm X 2.0mm X 1.1mm 0.65 mm lead pitch	3000/Tape & Reel	-7
74AUP2G14FW3-7	FW3	X2-DFN0910-6	0.9mm X 1.0mm X 0.35mm 0.35 mm pad pitch	5000/Tape & Reel	-7
74AUP2G14FW4-7	FW4	X2-DFN1010-6	1.0mm X 1.0mm X 0.4mm 0.35 mm pad pitch	5000/Tape & Reel	-7
74AUP2G14FZ4-7	FZ4	X2-DFN1410-6	1.4mm X 1.0mm X 0.4mm 0.5 mm pad pitch	5000/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>.  
 5. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

## Pin Descriptions

Pin Name	Pin NO	Function
1A	1	Data Input
GND	2	Ground
2A	3	Data Input
2Y	4	Data Output
V <sub>CC</sub>	5	Supply Voltage
1Y	6	Data Output

## Logic Diagram



## Function Table Diagram

Inputs	Output
nA	nY
H	L
L	H

**Absolute Maximum Ratings** (Notes 6 & 7) (@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
ESD MM	Machine Model ESD Protection	200	V
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 +150	°C

- Notes:
- 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.
  - 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.

**Recommended Operating Conditions** (Note 8) (@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> = 1.4	—	-1.7	
		V <sub>CC</sub> = 1.65V	—	-1.9	
		V <sub>CC</sub> = 2.3V	—	-3.1	
		V <sub>CC</sub> = 3.0	—	-4	
I <sub>OL</sub>	Low-Level Output Current	V <sub>CC</sub> = 0.8	—	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	
T <sub>A</sub>	Operating Free-Air Temperature	—	-40	+125	°C

- Note: 8. 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	0.3	0.65	0.3	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	
			3.0V	1.88	2.29	1.88	2.29	
$V_{T-}$	Negative-going Input Threshold Voltage	—	0.8V	0.1	0.6	0.1	0.6	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	
			3.0V	0.88	1.24	0.88	1.24	
$\Delta V_T$	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	
			3.0V	0.79	1.31	0.79	1.31	
$V_{OH}$	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	$0.75 \times V_{CC}$	—	$0.7 \times V_{CC}$	—	
		$I_{OH} = -1.7\text{mA}$	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	—	
$V_{OL}$	Low-Level Output 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	$V_I = \text{GND to } 3.6\text{V}$	0 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	—	$\pm 0.2$	—	$\pm 0.5$	$\mu\text{A}$
$\Delta I_{OFF}$	Delta Power Down Leakage Current	$V_I$ or $V_O = 0\text{V to } 3.6\text{V}$	0V to 0.2V	—	$\pm 0.2$	—	$\pm 0.6$	$\mu\text{A}$
$I_{CC}$	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** (Continued) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Test Conditions	V <sub>CC</sub>	T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Max	
V <sub>T+</sub>	Positive-going Input Threshold Voltage	—	0.8V	0.3	0.67	V
			1.1V	0.53	0.92	
			1.4V	0.74	1.13	
			1.65V	0.91	1.31	
			2.3V	1.37	1.80	
V <sub>T-</sub>	Negative-going Input Threshold Voltage	—	0.8V	0.1	0.6	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	
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	
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>	Low-Level Output 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	0 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	0V	—	± 1.0	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	—	1.4	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	Y	0.8V	—	19.9	—	—	—	—	—	ns
			1.2V ± 0.1V	2.7	5.9	11.0	2.4	11.1	2.4	11.2	
			1.5V ± 0.1V	2.6	4.3	6.6	2.4	7.1	2.4	7.4	
			1.8V ± 0.15V	2.1	3.7	5.4	2.0	6.0	2.0	6.2	
			2.5V ± 0.2V	1.2	2.4	3.9	1.1	4.5	1.1	5.0	
			3.3V ± 0.3V	1.1	2.1	3.2	1.0	3.9	1.0	4.3	

 $C_L=10\text{pF}$  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	Y	0.8V	—	23.4	—	—	—	—	—	ns
			1.2V ± 0.1V	2.9	6.8	12.7	2.8	12.8	2.8	12.9	
			1.5V ± 0.1V	2.8	5.0	7.7	2.6	8.2	2.6	8.6	
			1.8V ± 0.15V	2.7	4.2	6.2	2.5	6.7	2.5	7.1	
			2.5V ± 0.2V	1.6	2.9	4.6	1.5	5.4	1.5	6.0	
			3.3V ± 0.3V	1.5	2.7	3.8	1.4	4.5	1.4	5.0	

 $C_L=15\text{pF}$ , See Figure 1

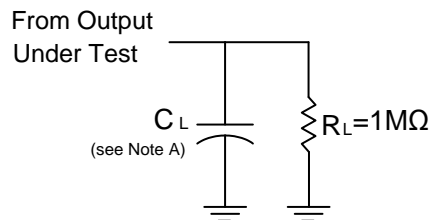
Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>PD</sub>	A	Y	0.8V	—	26.9	—	—	—	—	—	ns
			1.2V ± 0.1V	3.3	7.6	14.3	3.0	17.3	3.0	18.5	
			1.5V ± 0.1V	3.3	5.5	8.6	2.9	9.4	2.9	9.8	
			1.8V ± 0.15V	2.8	4.7	7.0	2.8	7.7	2.8	8.1	
			2.5V ± 0.2V	2.1	3.3	5.1	1.8	6.1	1.8	6.8	
			3.3V ± 0.3V	2.0	3.1	4.2	1.8	5.0	1.8	5.5	

 $C_L=30\text{pF}$ , See Figure 1

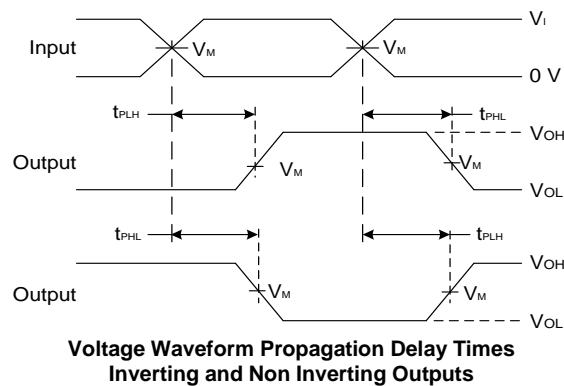
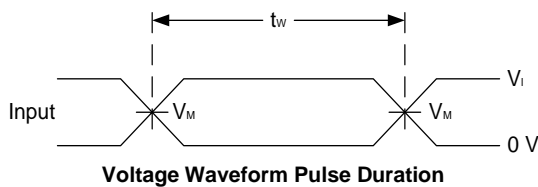
Parameter	From Input	TO OUTPUT	V <sub>CC</sub>	T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	Min	Max	
t <sub>PD</sub>	A	Y	0.8V	—	37.3	—	—	—	—	—	ns
			1.2V ± 0.1V	4.0	9.8	18.7	3.9	19.6	3.9	20.0	
			1.5V ± 0.1V	3.7	7.1	11.2	3.8	12.3	3.8	12.9	
			1.8V ± 0.15V	3.6	6.0	9.1	3.5	10.0	3.5	10.6	
			2.5V ± 0.2V	2.4	4.5	6.5	2.3	7.6	2.3	8.4	
			3.3V ± 0.3V	2.2	4.2	5.4	2.1	6.2	2.1	6.9	

**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	5.1	pF
			1.2V ± 0.1V	5.2	
			1.5V ± 0.1V	5.2	
			1.8V ± 0.15V	5.5	
			2.5V ± 0.2V	5.7	
			3.3V ± 0.3V	6.0	
C <sub>I</sub>	Input Capacitance	V <sub>I</sub> = V <sub>CC</sub> or GND	0V or 3.3V	2.0	pF
C <sub>O</sub>	Output Capacitance	V <sub>O</sub> = V <sub>CC</sub> or GND	0V	2.0	pF

**Parameter Measurement Information**


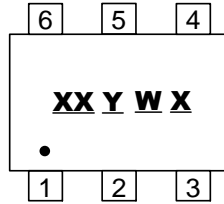
V <sub>CC</sub>	Inputs		V <sub>M</sub>	C <sub>L</sub>
	V <sub>I</sub>	t <sub>R</sub> /t <sub>F</sub>		
0.8V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.2V ± 0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.5V ± 0.1V	V <sub>CC</sub>	≤3ns	V <sub>CC</sub> /2	5, 10, 15, 30pF
1.8V ± 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 ≤ 10MHz.
  - 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>.

## Marking Information

(1) SOT363

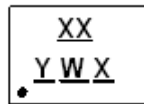


XX : Identification code  
Y : Year 0~9  
W : Week : A~Z : 1~26 week;  
           a~z : 27~52 week; z represents  
           52 and 53 week  
X : A~Z : Internal Code

Part Number	Package	Identification Code
74AUP2G14DW-7	SOT363	SR

(2) X2-DFN1410-6, X2-DFN1010-6, X2-DFN0910-6

(Top View)

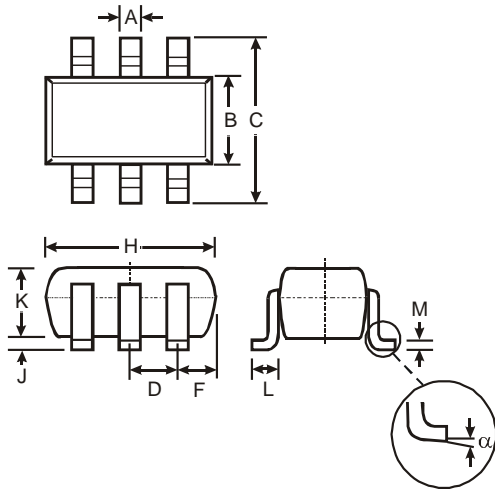


XX : Identification Code  
Y : Year : 0~9  
W : Week : A~Z : 1~26 week;  
           a~z : 27~52 week; z represents  
           52 and 53 week  
X : A~Z : Internal code

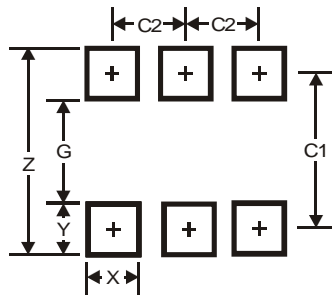
Part Number	Package	Identification Code
74AUP2G14FZ4	X2-DFN1410-6	RR
74AUP2G14FW4	X2-DFN1010-6	SR
74AUP2G14FW3	X2-DFN0910-6	MR

**SOT363 Package Outline Dimensions and Suggested Pad Layout**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



SOT363			
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			

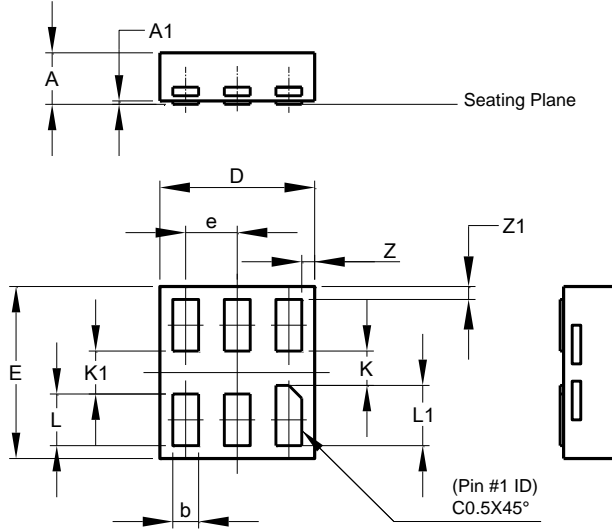


Dimensions	Value (in mm)
Z	2.5
G	1.3
X	0.42
Y	0.6
C1	1.9
C2	0.65

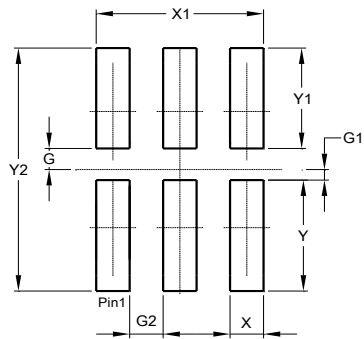


**X2-DFN0910-6 Package Outline Dimensions and Suggested Pad Layout**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



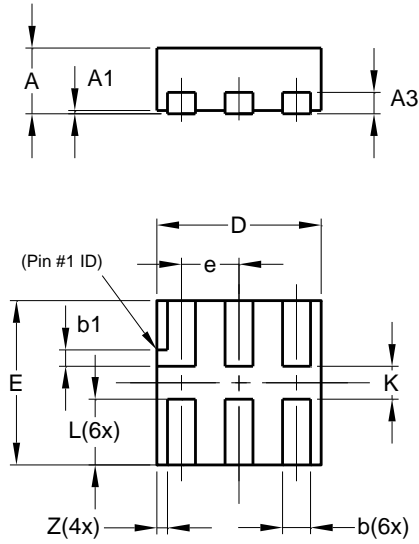
X2-DFN0910-6			
Dim	Min	Max	Typ
A	-	0.35	0.30
A1	0	0.03	0.02
b	0.10	0.20	0.15
D	0.85	0.95	0.90
E	0.95	1.05	1.00
e	-	-	0.30
K	0.20	-	-
K1	0.25	-	-
L	0.25	0.35	0.30
L1	0.30	0.40	0.35
Z	-	-	0.075
Z1	-	-	0.075
<b>All Dimensions in mm</b>			



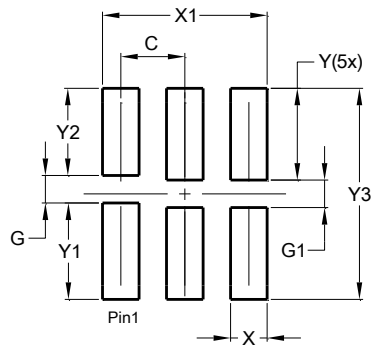
Dimensions	Value (in mm)
G	0.100
G1	0.050
G2	0.150
X	0.150
X1	0.750
Y	0.525
Y1	0.475
Y2	1.150

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

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



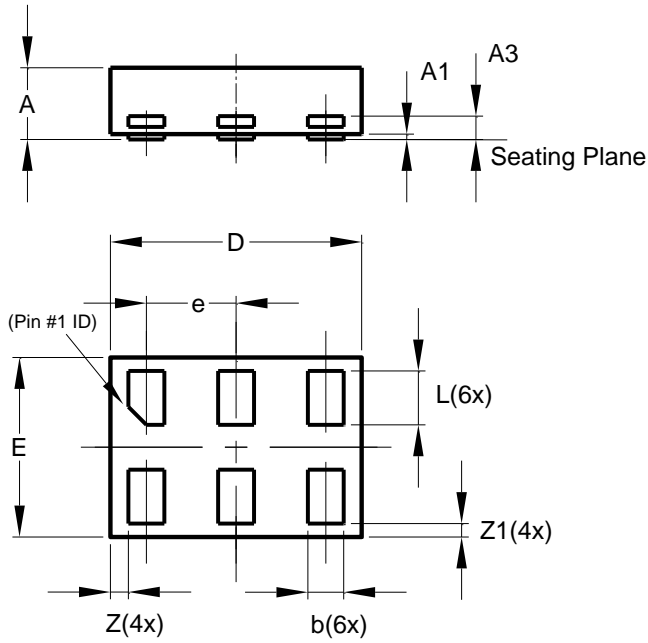
X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065
<b>All Dimensions in mm</b>			



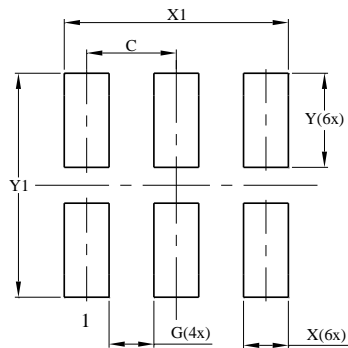
Dimensions	Value (in mm)
C	0.350
G	0.150
G1	0.150
X	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150

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

Please see <http://www.diodes.com/package-outlines.html> for the latest version.



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			



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

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