



SINGLE 2 INPUT POSITIVE AND GATE

Description

The 74LVC1G08 is a single 2-input positive AND gate with a standard push-pull output. The device is designed for operation with a power supply range of 1.65V to 5.5V. The inputs are tolerant to 5.5V allowing this device to be used in a mixed voltage environment. The device is fully specified for partial power down applications using $I_{\rm OFF}$. The $I_{\rm OFF}$ circuitry disables the output preventing damaging current backflow when the device is powered down.

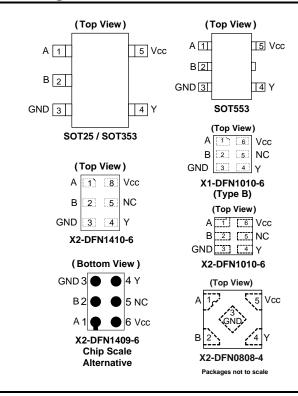
The gate performs the positive Boolean function:

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

Features

- Wide Supply Voltage Range from 1.65 to 5.5V
- ± 24mA Output Drive at 3.3V
- CMOS Low Power Consumption
- I_{OFF} Supports Partial-Power-Down Mode Operation
- Inputs Accept Up to 5.5V
- ESD Protection Tested per JESD 22
 - Exceeds 200-V Machine Model (A115)
 - Exceeds 2000-V Human Body Model (A114)
 - Exceeds 1000-V Charged Device Model (C101)
- Latch-Up Exceeds 100mA per JESD 78, Class I
- Range of Package Options
- Direct Interface with TTL Levels
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

Pin Assignments



Applications

- Voltage Level Shifting
- General Purpose Logic
- Power Down Signal Isolation
- Wide Array of Products Such as.
 - PCs, Networking, Notebooks, Netbooks, PDAs
 - Tablet Computers, E-readers
 - Computer Peripherals, Hard Drives, CD/DVD ROM
 - TV, DVD, DVR, Set Top Box
 - Cell Phones, Personal Navigation / GPS
 - MP3 Players , Cameras, Video Recorders

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 (Note 4)

T4 LVC1G 08 XXX -7

Logic Device Function Package Packing

74 : Logic Prefix LVC : 1.65 to 5.5 V Logic Family 1G : One Gate 08 : 2-Input AND Gate W5 : SOT25 SE : SOT353

-7 : 7" Tape & Reel

Z : SOT553 FS3 : X2-DFN0808-4

FW5: X1-DFN1010-6 (Type B)

FW4 :X2-DFN1010-6 FX4 : X2- DFN1409-6 FZ4 : X2- DFN1410-6

Don't Neuralian	Package	Package	Package	7" Tape	and Reel
Part Number	Code	(Notes 5 & 6)	Size	Quantity	Part Number Suffix
74LVC1G08W5-7	W5	SOT25	3.0mm x 2.8mm x 1.2mm 0.95mm lead pitch	3,000/Tape & Reel	-7
74LVC1G08SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65mm lead pitch	3,000/Tape & Reel	-7
74LVC1G08Z-7	Z	SOT553	1.6mm x 1.6 mm x 0.62mm 0.5mm lead pitch	4,000/Tape & Reel	-7
74LVC1G08FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8mm x 0.35mm 0.5mm pad pitch (diamond)	5,000/Tape & Reel	-7
74LVC1G08FW5-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35mm pad pitch	5,000/Tape & Reel	-7
74LVC1G08FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35mm pad pitch	5,000/Tape & Reel	-7
74LVC1G08FX4-7	FX4	X2-DFN1409-6 (Chip scale alternative)	1.4mm x 0.9mm x 0.4mm 0.5mm pad pitch	5,000/Tape & Reel	-7
74LVC1G08FZ4-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5mm pad pitch	5,000/Tape & Reel	-7

Notes:

- 4. For packaging details, go to our website at http://www.diodes.com/products/packages.html.
- 5. Pad layout as shown on Diodes Inc. suggested pad layout which can be found on our website at http://www.diodes.com/package-outlines.html.
- 6. The taping orientation is located on our website at http://www.diodes.com/datasheets/ap02007.pdf.

Pin Descriptions

Pin Name	Description
Α	Data Input
B Data Input	
GND	Ground
Y	Data Output
V _{CC}	Supply Voltage
NC	No Connection

Logic Diagram



Function Table

Inp	Output	
Α	В	Υ
Н	Н	Н
L	Х	L
X	L	L



Absolute Maximum Ratings (Notes 7 & 8) (@T_A = +25°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
ESD MM	Machine Model ESD Protection	200	V
Vcc	Supply Voltage Range	-0.5 to 6.5	V
Vı	Input Voltage Range	-0.5 to 6.5	V
Vo	Voltage Applied to Output in High Impedance or IOFF State	-0.5 to 6.5	V
Vo	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	-50	mA
lo	Continuous Output Current	±50	mA
I _{CC,} I _{GN}	Continuous Current Through V _{CC} or GND	±100	mA
TJ	Operating Junction Temperature	-40 to +150	°C
T _{STG}	Storage Temperature	-65 to +150	°C

Notes:

Recommended Operating Conditions (Note 9) (@TA = +25°C, unless otherwise specified.)

Symbol		Parameter	Min	Max	Unit
Vcc	Operating Voltage	Operating	1.65	5.5	V
v cc	Operating voltage	Data Retention Only	1.5	_	V
		$V_{CC} = 1.65V \text{ to } 1.95V$	0.65 x V _{CC}	_	
V_{IH}	High-Level Input Voltage	$V_{CC} = 2.3V \text{ to } 2.7$	1.7	_	V
VIH	High-Level Input Voltage	V _{CC} = 3 V to 3.6V	2	_	V
		V _{CC} = 4.5V to 5.5V	0.7 x V _{CC}	_	
		V _{CC} = 1.65V to 1.95V	_	0.35 x V _{CC}	
\ /	Low Lovel Input Voltage	V _{CC} = 2.3V to 2.7V	_	0.7	V
V_{IL}	Low-Level Input Voltage	V _{CC} = 3V to 3.6V	_	0.8	V
		V _{CC} = 4.5V to 5.5V	_	0.3 x V _{CC}	
Vı	Input Voltage		0	5.5	V
Vo	Output Voltage	0	Vcc	V	
		V _{CC} = 1.65V	_	-4	
		V _{CC} = 2.3V	_	-8	
	Lligh Lovel Output Current	V _{CC} = 2.7V	_	-12	mA
Іон	High-Level Output Current	V 0V	_	-16	mA
		$V_{CC} = 3V$	_	-24	
		V _{CC} = 4.5V	_	-32	
		V _{CC} = 1.65V	_	4	
		V _{CC} = 2.3V	_	8	
Las	Low-Level Output Current	V _{CC} = 2.7V	_	12	mA
I _{OL}	Low-Level Output Current	V 2V	_	16	ША
		$V_{CC} = 3V$	_	24	
		V _{CC} = 4.5V	_	32	
		$V_{CC} = 1.8V \pm 0.15V, 2.5V \pm 0.2V$	_	20	
$\Delta t/\Delta V$	Input Transition Rise or Fall Rate	$V_{CC} = 3.3V \pm 0.3V$		10	ns/V
		$V_{CC} = 5V \pm 0.5V$	_	5	
T _A	Operating Free-Air Temperature	_	-40	+125	°C

Note: 9. Unused inputs should be held at $V_{\mbox{CC}}$ or Ground.

^{7.} 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.

8. 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 (All typical values are at $V_{CC} = 3.3V$, $T_A = +25$ °C)

0	D	Total Constitions	.,	-40	0°C to +85°	С	-40°C to	+125°C	I I m i 4
Symbol	Parameter	Test Conditions	Vcc	Min	Тур.	Max	Min	Max	Unit
		I _{OH} = -100μA	1.65V to 5.5V	V _{CC} - 0.1	_	_	V _{CC} - 0.1	_	
		I _{OH} = -4mA	1.65V	1.2	_	_	0.95	_	
		$I_{OH} = -8mA$	2.3V	1.9	_	_	1.7	_	
V_{OH}	High Level Output Voltage	$I_{OH} = -12mA$	2.7V	2.2	_	_	1.9	_	V
	Calput Voltago	I _{OH} = -16mA	3V	2.4	_	_	2.2	_	
		$I_{OH} = -24mA$	3٧	2.3	_	_	2.0	_	
		I _{OH} = -32mA	4.5V	3.8	_	_	3.4	_	
		I _{OL} = 100μA	1.65V to 5.5V	_	_	0.1	_	0.1	
		I _{OL} = 4mA	1.65V	_	_	0.45	_	0.7	
		I _{OL} = 8mA	2.3V	_	_	0.3	_	0.45	
V_{OL}	Low Level Output Voltage	I _{OL} = 12mA	2.7V	_	_	0.4	_	0.6	V
	Output Voltage	I _{OL} = 16mA	3V	_	_	0.4	_	0.6	
		I _{OL} = 24mA	3٧	_	_	0.55	_	0.8	
		I _{OL} = 32mA	4.5V	_	_	0.55	_	.8	
lı	Input Current	V _I = 5.5V or GND	0 to 5.5V	_	± 0.1	±5	_	± 100	μΑ
loff	Power Down Leakage Current	V _I or V _O = 5.5V	0V	_	_	±10	_	±200	μΑ
Icc	Supply Current	$V_I = 5.5V$ or GND, $I_O = 0$	5.5V	_	0.1	10	_	200	μΑ
ΔI _{CC}	Additional Supply Current	One input at V _{CC} -0.6V Other inputs at V _{CC} or GND	3V to 5.5V	_	_	500	_	5,000	μΑ
Ci	Input Capacitance	$V_i = V_{CC}$ — or GND	3.3V	_	5	_	_	_	pF

Package Characteristics (All typical values are at $V_{CC} = 3.3V$, $T_A = +25$ °C)

Symbol	Parameter	Test Conditions	V _{CC}	Min	Тур	Max	Unit
		SOT25		_	204	_	
		SOT353		_	371	_	
		SOT553		_	231	_	
0	Thermal Resistance	X2-DFN0808-4	(Note 10)	_	400	_	°C 1 1 1
θја	Junction-to-Ambient	X1-DFN1010-6 (Type B)	(Note 10)	_	435	_	°C/W
		X2-DFN1010-6		_	445	_	
		X2-DFN1409-6		_	470	_	
		X2-DFN1410-6		_	460	_	
		SOT25		_	52	_	
		SOT353		_	143	_	
		SOT553		_	105	_	
	Thermal Resistance	X2-DFN0808-4	(Nata 40)	_	225	_	°C/W
θις	Junction-to-Case	X1-DFN1010-6 (Type B)	(Note 10)	_	250	_	C/VV
		X2-DFN1010-6		_	250	_	
		X2-DFN1409-6		_	275	_	
		X2-DFN1410-6		_	265	_	

Note: 10. Test condition for each of the 8 package types: Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.



Switching Characteristics

Figure 1 Typical Values at $T_A = +25^{\circ}C$ and nominal voltages 1.8V, 2.5V, 2.7V, 3.3V, and 5.0V.

Parameter	From	То	V	T _A	= -40°C to +85	5°C	T _A = -40°C	to +125°C	Unit
Farameter	Input	Output	V _{CC}	Min	Тур.	Max	Min	Max	Oiiit
			1.8V ± 0.15V	1.0	3.4	8.0	1.0	10.5	
			$2.5V \pm 0.2V$	0.5	2.2	5.5	0.5	7.0	
t _{pd}	A or B	Υ	2.7V	0.5	2.5	5.5	0.5	7.0	ns
			$3.3V \pm 0.3V$	0.5	2.1	4.5	0.5	6.0	
			$5.0V \pm 0.5V$	0.5	1.7	4.0	0.5	5.5	

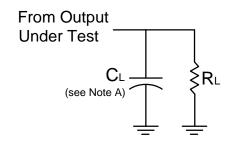
Operating Characteristics

 $T_A = +25^{\circ}C$

	Parameter	Test Conditions	V _{CC} = 1.8V Typ	V _{CC} = 2.5V Typ	V _{CC} = 3.3V Typ	V _{CC} = 5V Typ	Unit
$C_{\sf pd}$	Power Dissipation Capacitance	f = 10MHz	16	16	16	16	pF



Parameter Measurement Information



V	In	puts	V		
V _{CC}	VI	t _r /t _f	V _M	C∟	RL
1.8V ± 0.15V	V _{CC}	≤2ns	V _{CC} /2	30pF	1ΚΩ
2.5V ± 0.2V	V _{CC}	≤2ns	V _{CC} /2	30pF	500Ω
2.7V	Vcc	≤2.5ns	1.5V	50pF	500Ω
$3.3V \pm 0.3V$	3.0V	≤2.5ns	1.5V	50pF	500Ω
$5.0V \pm 0.5V$	Vcc	≤2.5ns	V _{CC} /2	50pF	500Ω

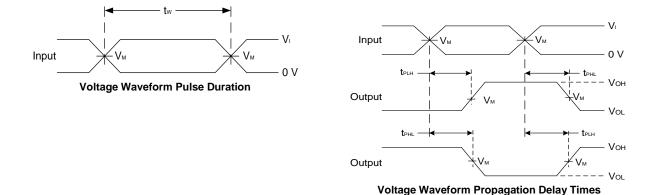


Figure 1 Load Circuit and Voltage Waveforms

Inverting and Non Inverting Outputs

Notes: A. Includes test lead and test apparatus capacitance.

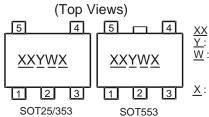
B. All pulses are supplied at pulse repetition rate ≤ 10MHz.
C. Inputs are measured separately one transition per measurement.

D. tplH and tpHL are the same as tpD.



Marking Information

(1) SOT25, SOT353 and SOT553



 \underline{XX} : Identification Code \underline{Y} : Year 0~9

<u>W</u>: Week: A~Z: 1~26 week; a~z: 27~52 week;

z represents 52 and 53 week \underline{X} : A-Z: Internal Code

Part Number	Package	Identification Code
74LVC1G08W5-7	SOT25	UV
74LVC1G08SE-7	SOT353	UV
74LVC1G08Z-7	SOT553	UV

(2) DFN Packages

(Top View)

XX $\underline{Y} \underline{W} \underline{X}$ \underline{XX} : Identification Code \underline{Y} : Year 0~9

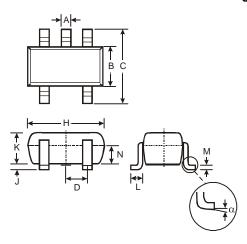
<u>Y</u>: Week: A~Z:1~26 week; a~z:27~52 week; z represents 52 and 53 week <u>X</u>: A~Z: Internal Code

Part Number	Package	Identification Code
74LVC1G08FS3-7	X2-DFN0808-4	WV
74LVC1G08FW5-7	X1-DFN1010-6 (Type B)	V7
74LVC1G08FW4-7	X2-DFN1010-6	UV
74LVC1G08FX4-7	X2-DFN1409-6	MF
74LVC1G08FZ4-7	X2-DFN1410-6	UV



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

SOT25

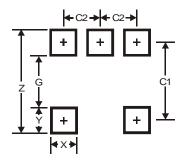


SOT25			
Dim	Min	Max	Тур
Α	0.35	0.50	0.38
В	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
Η	2.90	3.10	3.00
7	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
М	0.10	0.20	0.15
2	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

Suggested Pad Layout

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

SOT25

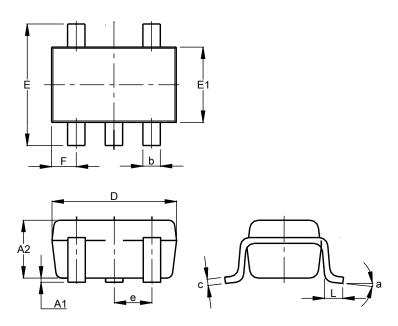


Dimensions	Value
Z	3.20
G	1.60
Х	0.55
Υ	0.80
C1	2.40
C2	0.95



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

SOT353

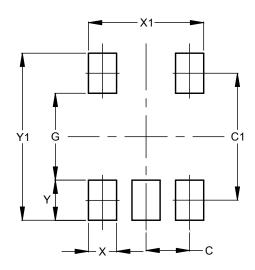


SOT353				
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	1.00	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	e 0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				

Suggested Pad Layout

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

SOT353

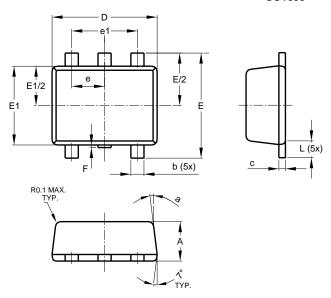


Dimensions	Value (in mm)
С	0.650
C1	1.900
G	1.300
Х	0.420
X1	1.720
Y	0.600
Y1	2 500



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

SOT553

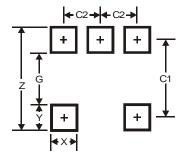


SOT553			
Dim	Min	Max	Тур
Α	0.55	0.62	0.60
b	0.15	0.30	0.20
С	0.10	0.18	0.15
D	1.50	1.70	1.60
Е	1.55	1.70	1.60
E1	1.10	1.25	1.20
е	0.50 BSC		
e1	1.00 BSC		
F	0.00	0.10	
L	0.10	0.30	0.20
а	6°	8°	7°
All Dimensions in mm			

Suggested Pad Layout

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

SOT553

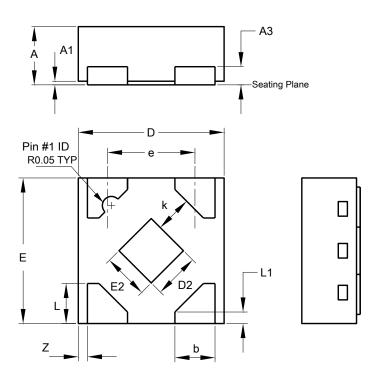


Dimensions	Value
Z	2.2
G	1.2
Х	0.375
Y	0.5
C1	1.7
C2	0.5



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

X2-DFN0808-4

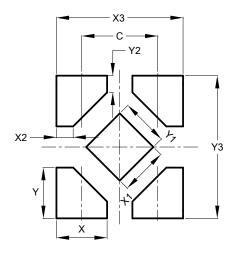


X2-DFN0808-4				
Dim	Min	Max	Тур	
Α	0.25	0.35	0.30	
A1	0	0.04	0.02	
А3	-	-	0.13	
b	0.17	0.27	0.22	
D	0.75	0.85	0.80	
D2	0.15	0.35	0.25	
Е	0.75	0.85	0.80	
E2	0.15	0.35	0.25	
е	-	-	0.48	
k	0.20	-	-	
L	0.17	0.27	0.22	
L1	0.02	0.12	0.07	
z	-	-	0.05	
All Dimensions in mm				

Suggested Pad Layout

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

X2-DFN0808-4

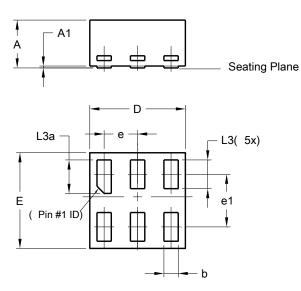


Dimensions	Value
С	0.480
X	0.320
X1	0.300
X2	0.106
Х3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900



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

X1-DFN1010-6 (Type B)

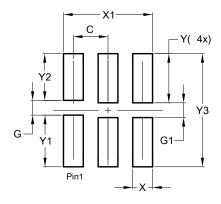


	X1-DFN1010-6 (Type B)				
Dim	Min	Max	Тур		
Α	-	0.50	0.39		
A1	-	0.04	-		
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е	0.35 BSC				
e1	0.55 BSC				
L3	0.27	0.30	0.30		
L3a	0.32	0.40	0.35		
All Dimensions in mm					

Suggested Pad Layout

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

X1-DFN1010-6 (Type B)

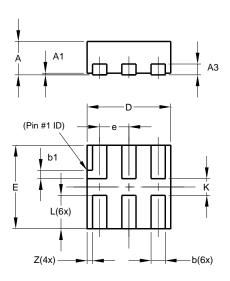


Dimensions	Value
DIIIIGIISIOIIS	(in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Υ	0.500
Y1	0.525
Y2	0.475
Y3	1.150



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

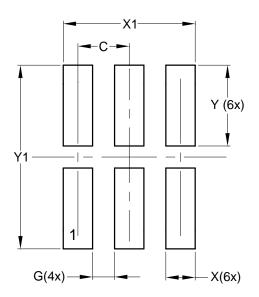
X2-DFN1010-6



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			

Suggested Pad Layout

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



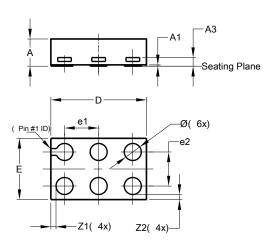
X2-DFN1010-6

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



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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE

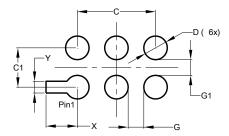


X2-DFN1409-6					
Dim	Min	Max	Тур		
Α	-	0.40	0.39		
A1	0	0.05	0.02		
A3	-	-	0.13		
Ø	0.20	0.30	0.25		
D	1.35	1.45	1.40		
Е	0.85	0.95	0.90		
e1	-	-	0.50		
e2	-	-	0.50		
Z 1	-	-	0.075		
Z2	-	-	0.075		
All Dimensions in mm					

Suggested Pad Layout

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

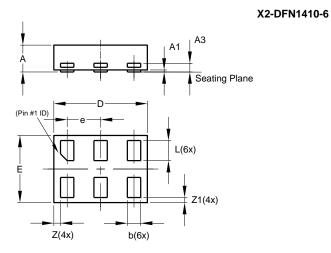
X2-DFN1409-6 CHIP SCALE ALTERNATIVE



Dimensions	value	
Difficusions	(in mm)	
С	1.000	
C1	0.500	
D	0.300	
G	0.200	
G1	0.200	
X	0.400	
Y	0.150	



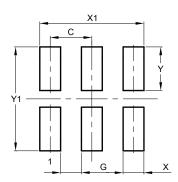
Please see http://www.diodes.com/package-outlines.html for the latest version.



X2-DFN1410-6				
Dim	Min	Max	Тур	
Α		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	
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				

Suggested Pad Layout

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



X2-DFN1410-6

Dimensions	Value (in mm)	
С	0.500	
G	0.250	
Х	0.250	
X1	1.250	
Y	0.525	
Y1	1.250	



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