



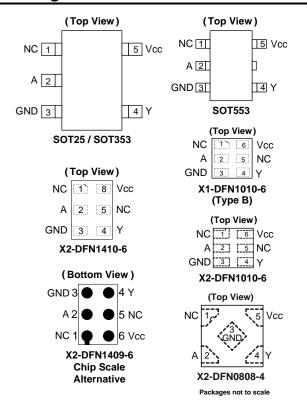
Description

The 74LVC1G04 is a single inverter 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_{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:

$$Y = \overline{A}$$

Pin Assignments



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)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative.

https://www.diodes.com/quality/product-definitions/

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) & 2015/863/EU (RoHS 3) compliant.
- See https://www.diodes.com/quality/lead-free/ 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.

-7:7" Tape & Reel



Ordering Information (Note 4)

74 LVC1G 04 XXX -7

Logic Device Function Package Packing

74 : Logic Prefix LVC : 1.65 to 5.5 V Logic Family 1G : One Gate 04: 1-Input Inverter / Buffer

W5 : SOT25 SE : SOT353 Z : SOT553

FS3: X2-DFN0808-4 FW5: X1-DFN1010-6 (Type B)

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

Dort Number	Bookens Code	Package	Package	7" Tape an	nd Reel
Part Number Package Code		(Notes 5 & 6)	Size	Quantity	Part Number Suffix
74LVC1G04W5-7	W5	SOT25	3.0mm x 2.8mm x 1.2mm 0.95 mm lead pitch	3,000/Tape & Reel	-7
74LVC1G04SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65 mm lead pitch	3,000/Tape & Reel	-7
74LVC1G04Z-7	Z	SOT553	1.6mm x 1.6 mm x 0.62mm 0.5 mm lead pitch	4,000/Tape & Reel	-7
74LVC1G04FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8 mm x 0.35mm 0.5 mm pad pitch (diamond)	5,000/Tape & Reel	-7
74LVC1G04FW5-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74LVC1G04FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74LVC1G04FX4-7	FX4	X2-DFN1409-6 Chip scale alternative	1.4mm x 0.9mm x 0.4mm 0.5 mm pad pitch	5.000/Tape & Reel	
74LVC1G04FZ4-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5 mm pad pitch 5,000/Tape & Reel		-7

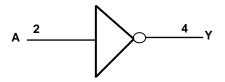
Notes:

- 4. 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 document 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/package-outlines.html.

Pin Descriptions

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

Logic Diagram



Function Table

Inputs	Output
Α	Y
Н	L
L	Н



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
V _{CC}	Supply Voltage Range	-0.5 to 6.5	V
VI	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
lok	Output Clamp Current	-50	mA
lo	Continuous Output Current	±50	mA
Icc, Ign	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) (@T_A = +25°C, unless otherwise specified.)

Symbol		Parameter	Min	Max	Unit	
V	Operating Voltage	Operating	1.65	5.5	V	
Vcc	Operating voltage	Data retention only	1.5		V	
		V _{CC} = 1.65V to 1.95V	0.65 x V _{CC}	1		
V/	High-Level Input Voltage	V _{CC} = 2.3V to 2.7V	1.7	1	V	
V_{IH}	High-Level input voltage	V _{CC} = 3V 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}		
		V _{CC} = 2.3V to 2.7V	_	0.7		
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}		
VI	Input Voltage		0	5.5	V	
Vo	Output Voltage		0	Vcc	V	
		V _{CC} = 1.65V	_	-4		
		V _{CC} = 2.3V	_	-8		
	High Lovel Output Current	V _{CC} = 2.7V	_	-12	mA	
Іон	High-Level Output Current		_	-16	mA	
		V _{CC} = 3V	_	-24		
		$V_{CC} = 4.5V$	_	-32		
		V _{CC} = 1.65V	_	4		
		V _{CC} = 2.3V	_	8		
l _{OL}	Low-Level Output Current	V _{CC} = 2.7V	_	12	mA	
IOL	Low Level Output Outlett	V _{CC} = 3V	_	16	111/4	
		VCC = 3V		24		
		V _{CC} = 4.5V	_	32		
		$V_{CC} = 1.8V \pm 0.15V, 2.5V \pm 0.2V$	_	20		
Δt/ΔV	Input Transition Rise or Fall Rate	$V_{CC} = 3.3 \overline{V} \pm 0.3 V$	_	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_{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)

Cumbal	Parameter	Test Conditions	V	-4(0°C to +85°	С	-40°C to	+125°C	Unit
Symbol	Parameter	rest Conditions	V _{CC}	Min	Тур.	Max	Min	Max	Unit
I I		$I_{OH} = -100 \mu A$	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
	Output Voltage	I _{OH} = -16mA	3V	2.4	_	_	2.2	_	
		I _{OH} = -24mA	30	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	_	0.45	
		I _{OL} = 8mA	2.3V	_	_	0.3	_	0.3	
VoL	Low-Level Output Voltage	I _{OL} = 12mA	2.7V	_	_	0.4	_	0.6	V
	Output Voltage	I _{OL} = 16mA	3V	_	_	0.4	_	0.4	
		I _{OL} = 24mA	30	_	-	0.55	_	0.55	
		$I_{OL} = 32mA$	4.5V	_	1	0.55	_	0.55	
II	Input Current	V _I = 5.5 V or GND	0 to 5.5V	_	± 0.1	±5	_	± 5	μA
loff	Power Down Leakage Current	V_1 or $V_0 = 5.5V$	0V	_		±10		±10	μΑ
I _{CC}	Supply Current	V _I = 5.5V or GND I _O =0	5.5V	_	0.1	10	_	10	μΑ
ΔI _{CC}	Additional Supply Current	Input at V _{CC} -0.6V	3V to 5.5V	_		500	_	5,000	μΑ
Ci	Input Capacitance	$V_i = V_{CC} - \text{or GND}$	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 \\\\
θ_{JA}	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	_	
0	Thermal Resistance	X2-DFN0808-4	(Note 10)	_	225	_	°C/W
θ_{JC}	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°C and nominal voltages 1.8V, 2.5V, 2.7V, 3.3V, and 5.0V.

Boromotor	arameter From Input O	То	V	T _A	= -40°C to +8	5°C	T _A = -40°C	to +125°C	Unit
Parameter		Output	Vcc	Min	Тур	Max	Min	Max	Ullit
			1.8V ± 0.15V	1.0	3.0	7.5	1.0	9.5	
			2.5V ± 0.2V	0.5	2.0	5.0	0.5	6.5	
t _{pd}	A or B	Y	2.7V	0.5	2.3	5.2	0.5	7.0	ns
			$3.3V \pm 0.3V$	0.5	2.0	4.2	0.5	5.5	
		$5.0V \pm 0.5V$	0.5	1.6	3.7	0.5	5.0		

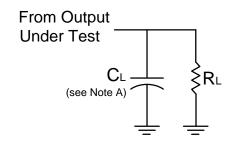
Operating Characteristics

 $T_A = +25$ °C

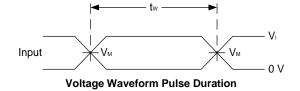
	Parameter	Test Conditions	V _{CC} = 1.8V Typ	V _{CC} = 2.5V Typ	V _{CC} = 3.3V Typ	V _{CC} = 5V Typ	Unit
C_{pd}	Power Dissipation Capacitance	f = 10MHz	16	16	16	16	pF

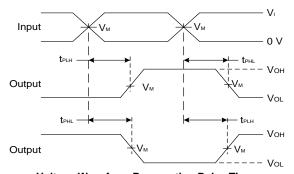


Parameter Measurement Information



V	Inputs		V	2	Б
V _{CC}	VI	t _r /t _f	V _M	CL	R_L
1.8V ± 0.15V	Vcc	≤2ns	V _{CC} /2	30pF	1kΩ
2.5V ± 0.2V	Vcc	≤2ns	V _{CC} /2	30pF	500Ω
2.7V	Vcc	≤2.5ns	1.5V	50pF	500Ω
3.3V ± 0.3V	3.0V	≤2.5ns	1.5V	50pF	500Ω
5.0V ± 0.5V	Vcc	≤2.5ns	V _{CC} /2	50pF	500Ω





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.

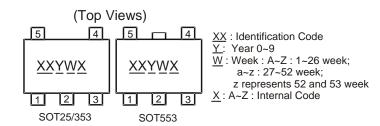
B. All pulses are supplied at pulse repetition rate ≤ 10MHz.

C. t_{PLH} and t_{PHL} are the same as t_{PD} .



Marking Information

(1) SOT25, SOT353 and SOT553



Part Number	Package	Identification Code
74LVC1G04W5-7	SOT25	UU
74LVC1G04SE-7	SOT353	UU
74LVC1G04Z-7	SOT553	UU

(2) DFN Packages

(Top View)



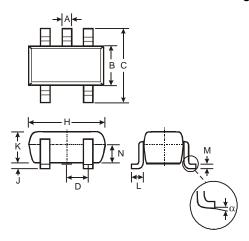
 $\begin{array}{l} \underline{XX} : \text{Identification Code} \\ \underline{Y} : \text{ Year 0~9} \\ \underline{W} : \text{Week} : \text{A~Z} : \text{1~26 week}; \end{array}$ a~z: 27~52 week; z represents 52 and 53 week \underline{X} : A~Z: Internal Code

Part Number	Package	Identification Code
74LVC1G04FS3-7	X2-DFN0808-4	WU
74LVC1G04FW5-7	X1-DFN1010-6 (Type B)	V4
74LVC1G04FW4-7	X2-DFN1010-6	UU
74LVC1G04FX4-7	X2-DFN1409-6	MC
74LVC1G04FZ4-7	X2-DFN1410-6	UU



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

SOT25

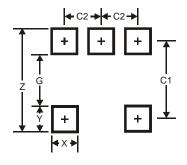


SOT25			
Dim	Min	Max	Тур
Α	0.35	0.50	0.38
В	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
H	2.90	3.10	3.00
7	0.013	0.10	0.05
K	1.00	1.30	1.10
ı	0.35	0.55	0.40
М	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

Suggested Pad Layout

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

SOT25

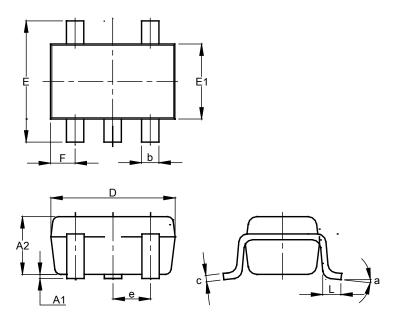


Dimensions	Value
Z	3.20
G	1.60
Х	0.55
Y	0.80
C1	2.40
C2	0.95



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

SOT353

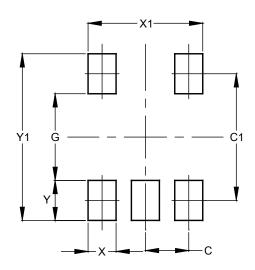


	SOT353		
Dim	Min	Max	Тур
A1	0.00	0.10	0.05
A2	0.90	1.00	1.00
b	0.10	0.30	0.25
U	0.10	0.22	0.11
D	1.80	2.20	2.15
Е	2.00	2.20	2.10
E1	1.15	1.35	1.30
е	0.650 BSC		
F	0.40	0.45	0.425
١	0.25	0.40	0.30
а	0°	8°	
All Dimensions in mm			

Suggested Pad Layout

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

SOT353

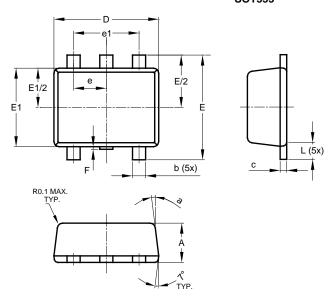


Dimensions	Value	
Dilliensions	(in mm)	
С	0.650	
C1	1.900	
G	1.300	
Х	0.420	
X1	1.720	
Y	0.600	
Y1	2.500	



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

SOT553

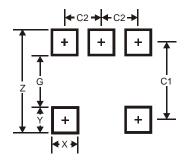


SOT553			
Dim	Min	Max	Тур
Α	0.55	0.62	0.60
b	0.15	0.30	0.20
С	0.10	0.18	0.15
D	1.50	1.70	1.60
Е	1.55	1.70	1.60
E1	1.10	1.25	1.20
е	0.50 BSC		
e1	1.00 BSC		
F	0.00	0.10	
L	0.10	0.30	0.20
а	6°	8°	7°
All Dimensions in mm			

Suggested Pad Layout

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

SOT553

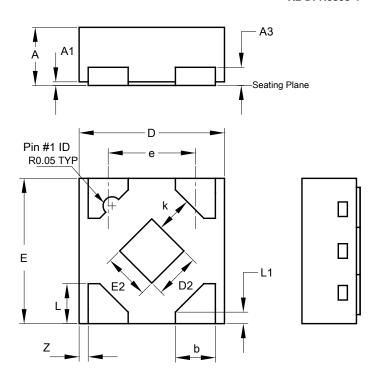


Dimensions	Value
Z	2.2
G	1.2
Х	0.375
Υ	0.5
C1	1.7
C2	0.5



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

X2-DFN0808-4

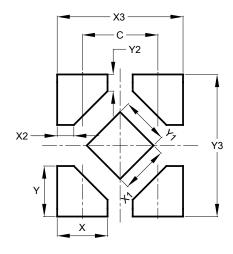


X2-DFN0808-4				
Dim	Min	Max	Тур	
Α	0.25	0.35	0.30	
A1	0	0.04	0.02	
A3	-	-	0.13	
b	0.17	0.27	0.22	
D	0.75	0.85	0.80	
D2	0.15	0.35	0.25	
Е	0.75	0.85	0.80	
E2	0.15	0.35	0.25	
е	ı	ı	0.48	
k	0.20	-	-	
L	0.17	0.27	0.22	
L1	0.02	0.12	0.07	
z	-	-	0.05	
All Dimensions in mm				

Suggested Pad Layout

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

X2-DFN0808-4

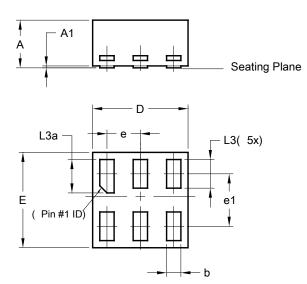


Dimensions	Value
С	0.480
Х	0.320
X1	0.300
X2	0.106
Х3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900



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

X1-DFN1010-6 (Type B)

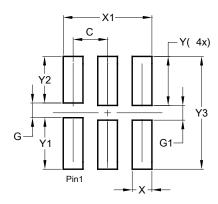


	X1-DFN1010-6				
	(Ty	pe B)			
Dim	Min Max Typ				
Α	1	0.50	0.39		
A1	-	0.04	-		
b	0.12	0.20	0.15		
D	0.95	1.050	1.00		
Е	0.95	1.050	1.00		
е	0.35 BSC				
e1	0.55 BSC				
L3	0.27	0.30	0.30		
L3a	0.32	0.40	0.35		
All Dimensions in mm					

Suggested Pad Layout

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

X1-DFN1010-6 (Type B)

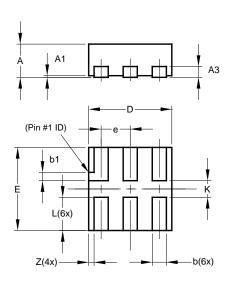


Dimensions	Value
iniensions	(in mm)
С	0.350
G	0.150
G1	0.150
Х	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150



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

X2-DFN1010-6

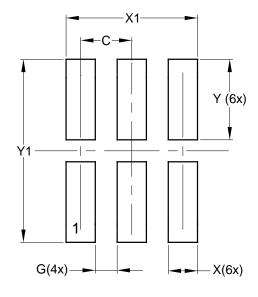


X2-DFN1010-6			
Dim	Min	Max	Тур
Α		0.40	0.39
A1	0.00	0.05	0.02
A3		_	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
Е	0.95	1.05	1.00
е	_		0.35
L	0.35	0.45	0.40
K	0.15	_	_
Z			0.065
All Dimensions in mm			

Suggested Pad Layout

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

X2-DFN1010-6

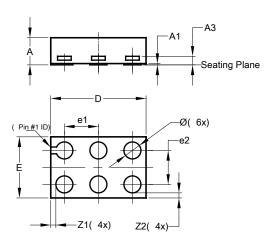


Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1.250



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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE

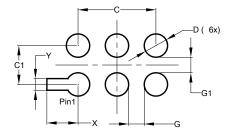


X2-DFN1409-6					
Dim	Min	Max	Тур		
Α	-	0.40	0.39		
A1	0	0.05	0.02		
A3	-	-	0.13		
Ø	0.20	0.30	0.25		
D	1.35	1.45	1.40		
Е	0.85	0.95	0.90		
e1	-	-	0.50		
e2	-	ı	0.50		
Z 1	-	-	0.075		
Z2	-	-	0.075		
All Dimensions in mm					

Suggested Pad Layout

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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE

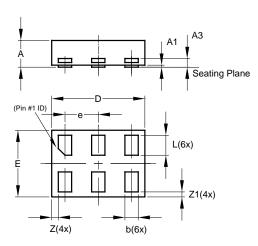


Dimensions	Value (in mm)	
С	1.000	
C1	0.500	
D	0.300	
G	0.200	
G1	0.200	
Х	0.400	
Υ	0.150	



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

X2-DFN1410-6

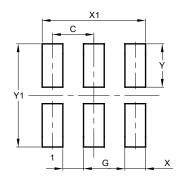


X2-DFN1410-6					
Dim	Min	Max	Тур		
Α		0.40	0.39		
A1	0.00	0.05	0.02		
А3		_	0.13		
b	0.15	0.25	0.20		
D	1.35	1.45	1.40		
E	0.95	1.05	1.00		
е			0.50		
L	0.25	0.35	0.30		
Z			0.10		
Z 1	0.045	0.105	0.075		
All Dimensions in mm					

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
V1	1 250



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