Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Lead-free Green

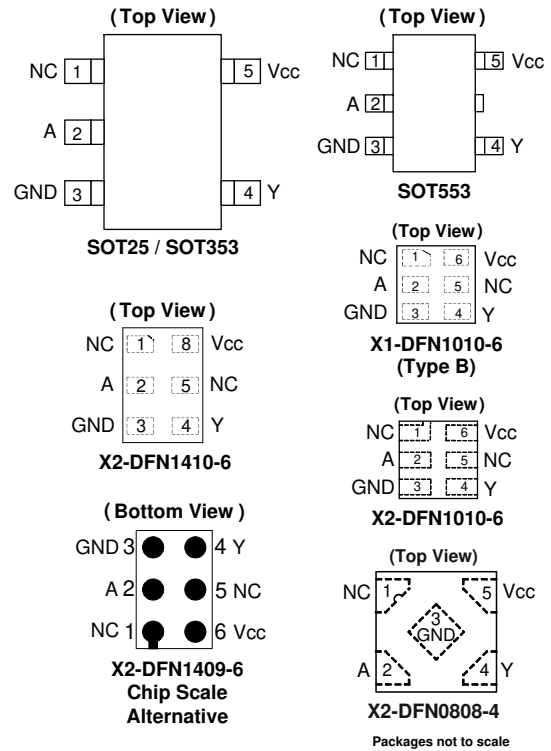**SINGLE INVERTER BUFFER/DRIVER WITH OPEN DRAIN OUTPUT**

Description

The 74LVC1G06 is a single inverter gate with an open drain output. The device is designed for operation with a power supply range of 1.65V to 5.5V. The input is 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 open-drain output can be connected to other open drain outputs to implement active-low wired-OR or active-high wired-AND functions. The maximum sink current is 32mA.

Features

- Wide Supply Voltage Range from 1.65 to 5.5V
- 24mA Sink Current 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
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

Pin Assignments

(Top View)

NC 1 5 Vcc
A 2
GND 3 4 Y

SOT25 / SOT353

(Top View)

NC 1 5 Vcc
A 2
GND 3 4 Y

SOT553

(Top View)

NC 1 6 Vcc
A 2 5 NC
GND 3 4 Y

X1-DFN1010-6 (Type B)

(Top View)

NC 1 8 Vcc
A 2 5 NC
GND 3 4 Y

X2-DFN1410-6

(Top View)

NC 1 6 Vcc
A 2 5 NC
GND 3 4 Y

X2-DFN1010-6

(Bottom View)

GND 3 4 Y
A 2 5 NC
NC 1 6 Vcc

X2-DFN1409-6 Chip Scale Alternative

(Top View)

NC 1 5 Vcc
3 GND
A 2 4 Y

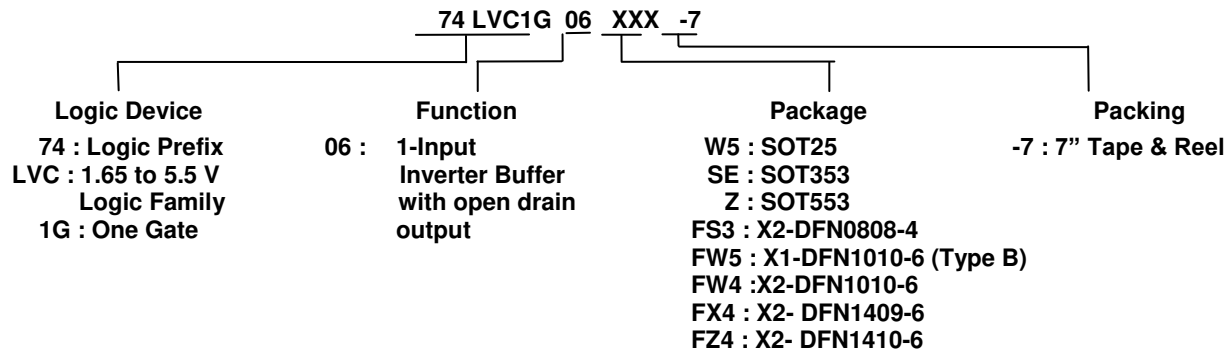**X2-DFN0808-4**

Packages not to scale

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.
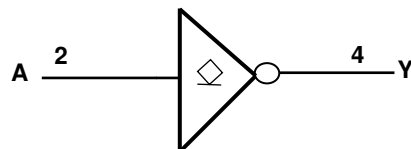
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Ordering Information (Note 4)

74 LVC1G 06 XXX -7

Logic Device	Function	Package	Packing
74 : Logic Prefix **LVC :** 1.65 to 5.5 V Logic Family **1G :** One Gate	**06 :** 1-Input Inverter Buffer with open drain output	**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	**-7 :** 7" Tape & Reel

Part Number	Package Code	Package (Notes 5 & 6)	Package Size	7" Tape and Reel	
				Quantity	Part Number Suffix
74LVC1G06W5-7	W5	SOT25	3.0mm x 2.8mm x 1.2mm 0.95 mm lead pitch	3,000/Tape & Reel	-7
74LVC1G06SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65 mm lead pitch	3,000/Tape & Reel	-7
74LVC1G06Z-7	Z	SOT553	1.6mm x 1.6 mm x 0.62mm 0.5 mm lead pitch	4,000/Tape & Reel	-7
74LVC1G06FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8 mm x 0.35mm 0.5 mm pad pitch (diamond)	5,000/Tape & Reel	-7
74LVC1G06FW5-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74LVC1G06FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35 mm pad pitch	5,000/Tape & Reel	-7
74LVC1G06FX4-7	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
74LVC1G06FZ4-7	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 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
NC	No Connection
A	Data Input
GND	Ground
Y	Data Output
V_{CC}	Supply Voltage

Logic Diagram

Function Table

Inputs	Output
A	**Y**
H	L
L	Z

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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
V_I	Input Voltage Range	-0.5 to 6.5	V
V_O	Voltage Applied to Output in High Impedance or I_OFF State	-0.5 to 6.5	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	-50	mA
I_O	Continuous Output Current	±50	mA
I_CC, I_GN	Continuous Current Through V_CC or GND	±100	mA
T_J	Operating Junction Temperature	-40 to +150	°C
T_STG	Storage Temperature	-65 to +150	°C

Notes: 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.

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

Symbol	Parameter		Min	Max	Unit
V_CC	Operating Voltage	Operating	1.65	5.5	V
		Data retention only	1.5	—	V
V_IH	High-Level Input Voltage	V_CC = 1.65V to 1.95V	0.65 x V_CC	—	V
		V_CC = 2.3V to 2.7V	1.7	—	
		V_CC = 3V to 3.6V	2	—	
		V_CC = 4.5V to 5.5V	0.7 x V_CC	—	
V_IL	Low-Level Input Voltage	V_CC = 1.65V to 1.95V	—	0.35 x V_CC	V
		V_CC = 2.3V to 2.7V	—	0.7	
		V_CC = 3V to 3.6V	—	0.8	
		V_CC = 4.5V to 5.5V	—	0.3 x V_CC	
V_I	Input Voltage		0	5.5	V
V_O	Output Voltage		0	5.5	V
I_OL	Low-Level Output Current	V_CC = 1.65V	—	4	mA
		V_CC = 2.3V	—	8	
		V_CC = 2.7V	—	12	
		V_CC = 3V	—	16	
			—	24	
		V_CC = 4.5V	—	32	
Δt/ΔV	Input Transition Rise or Fall Rate	V_CC = 1.8V ± 0.15V, 2.5V ± 0.2V	—	20	ns/V
		V_CC = 3.3V ± 0.3V	—	10	
		V_CC = 5V ± 0.5V	—	5	
T_A	Operating Free-Air Temperature	—	-40	+125	°C

Note: 9. Unused inputs should be held at V_CC or Ground.

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

Symbol	Parameter	Test Conditions	V_{CC}	-40°C to +85°C			-40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
V_{OL}	Low Level Output Voltage	I_{OL} = 100µA	1.65V to 5.5V	—	—	0.1	—	0.1	V
		I_{OL} = 4mA	1.65V	—	—	0.45	—	0.7	
		I_{OL} = 8mA	2.3V	—	—	0.3	—	0.45	
		I_{OL} = 12mA	2.7	—	—	0.4	—	0.6	
		I_{OL} = 16mA	3V	—	—	0.4	—	0.6	
		I_{OL} = 24mA		—	—	0.55	—	0.8	
		I_{OL} = 32mA	4.5V	—	—	0.55	—	0.8	
I_I	Input Current	V_I = 5.5 V or GND	0 to 5.5V	—	± 0.1	±5	—	± 100	µA
I_{OFF}	Power Down Leakage Current	V_I or V_O = 5.5V	0V	—	—	±10	—	±200	µA
I_{CC}	Supply Current	V_I = 5.5V or GND I_O = 0	5.5V	—	0.1	10	—	200	µA
ΔI_{CC}	Additional Supply Current	Input at V_{CC} – 0.6 V	3V to 5.5V	—	—	500	—	5,000	µA
C_i	Input Capacitance	$V_i = V_{CC}$ – or GND	3.3V	—	5	—	—	—	pF

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

Symbol	Parameter	Test Conditions	V_{CC}	Min	Typ.	Max	Unit
θ_{JA}	Thermal Resistance Junction-to-Ambient	SOT25	(Note 10)	—	204	—	°C/W
		SOT353		—	371	—	
		SOT553		—	231	—	
		X2-DFN0808-4		—	400	—	
		X1-DFN1010-6 (Type B)		—	435	—	
		X2-DFN1010-6		—	445	—	
		X2-DFN1409-6		—	470	—	
		X2-DFN1410-6		—	460	—	
θ_{JC}	Thermal Resistance Junction-to-Case	SOT25	(Note 10)	—	52	—	°C/W
		SOT353		—	143	—	
		SOT553		—	105	—	
		X2-DFN0808-4		—	225	—	
		X1-DFN1010-6 (Type B)		—	250	—	
		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

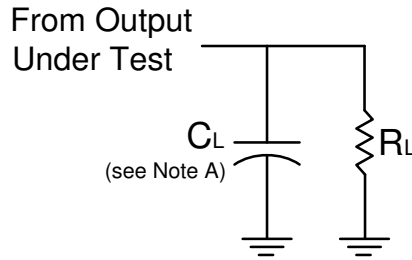Figure 1 Typical Values at T_A = +25°C and nominal voltages 1.8V, 2.5V, 2.7V, 3.3V, and 5.0V.

Parameter	From Input	To Output	V_{CC}	T_A = -40°C to +85°C			T_A = -40°C to +125°C		Unit
				Min	Typ	Max	Min	Max	
t_{pd}	A or B	Y	1.8V ± 0.15V	1.0	3.0	6.5	1.0	8.5	ns
			2.5V ± 0.2V	0.5	1.9	4.0	0.5	5.5	
			2.7V	0.5	2.5	4.5	0.5	6.0	
			3.3 V ± 0.3V	0.5	2.3	4.0	0.5	5.5	
			5.0V ± 0.5V	0.5	1.7	3.0	0.5	4.0	

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	3	3	4	6	pF

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Parameter Measurement Information

From Output
Under Test

C_L (see Note A) R_L

V_{CC}	Inputs		V_M	V_{LOAD}	C_L	R_L	V_Δ
	V_I	t_r/t_f					
1.8V±0.15V	V_{CC}	≤2ns	$V_{CC}/2$	2 X V_{CC}	30pF	1KΩ	0.15V
2.5V±0.2V	V_{CC}	≤2ns	$V_{CC}/2$	2 X V_{CC}	30pF	500Ω	0.15V
2.7V	2.7V	≤2.5ns	1.5V	6V	50pF	500Ω	0.3V
3.3V±0.3V	3V	≤2.5ns	1.5V	6V	50pF	500Ω	0.3V
5V±0.5V	V_{CC}	≤2.5ns	$V_{CC}/2$	2 X V_{CC}	50pF	500Ω	0.3V

Voltage Waveform Pulse Duration

**Voltage Waveform Propagation Delay Times
Inverting and Non Inverting Outputs**
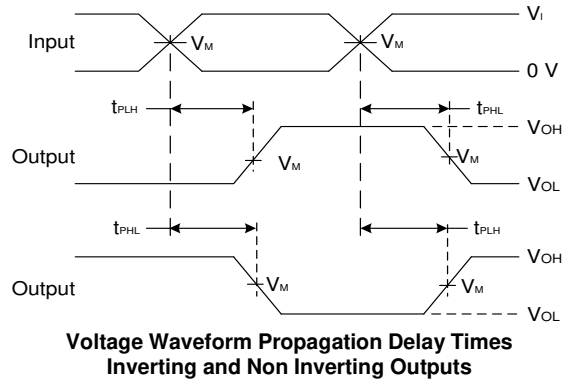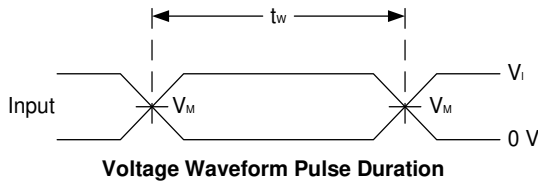
Figure 1 Load Circuit and Voltage Waveforms

Notes: A. Includes test lead and test apparatus capacitance.
B. All pulses are supplied at pulse repetition rate ≤ 10 MHz
C. The inputs are measured one at a time with one transition per measurement.
D. For the open drain device t_{PLZ} and t_{PZL} are the same as t_{PD}
E. t_{PZL} is measured at V_M.
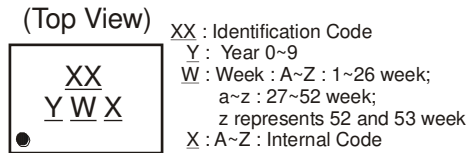F. t_{PLZ} is measured at $V_{OL} + V_\Delta$

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Marking Information

(1)   SOT25, SOT353 and SOT553

(Top Views)

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

SOT25/353   SOT553
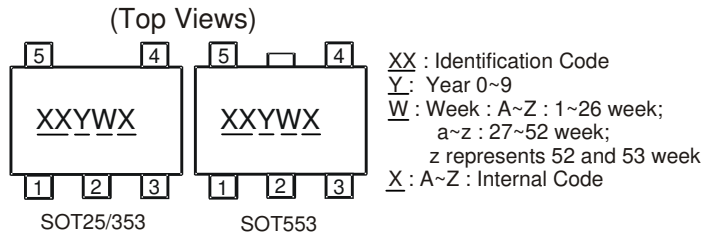
Part Number	Package	Identification Code
74LVC1G06W5-7	SOT25	UM
74LVC1G06SE-7	SOT353	UM
74LVC1G06Z-7	SOT553	UM

(2)   DFN Packages

(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
74LVC1G06FS3-7	X2-DFN0808-4	WM
74LVC1G06FW5-7	X1-DFN1010-6 (Type B)	V5
74LVC1G06FW4-7	X2-DFN1010-6	UM
74LVC1G06FX4-7	X2-DFN1409-6	MD
74LVC1G06FZ4-7	X2-DFN1410-6	UM

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Package Outline Dimensions

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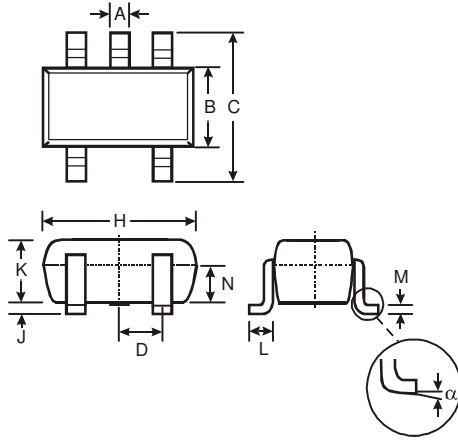
SOT25			
Dim	**Min**	**Max**	**Typ**
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

Suggested Pad Layout

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

SOT25
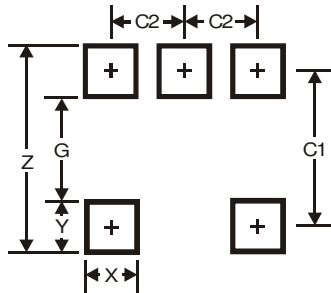
Dimensions	Value
Z	3.20
G	1.60
X	0.55
Y	0.80
C1	2.40
C2	0.95

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Package Outline Dimensions

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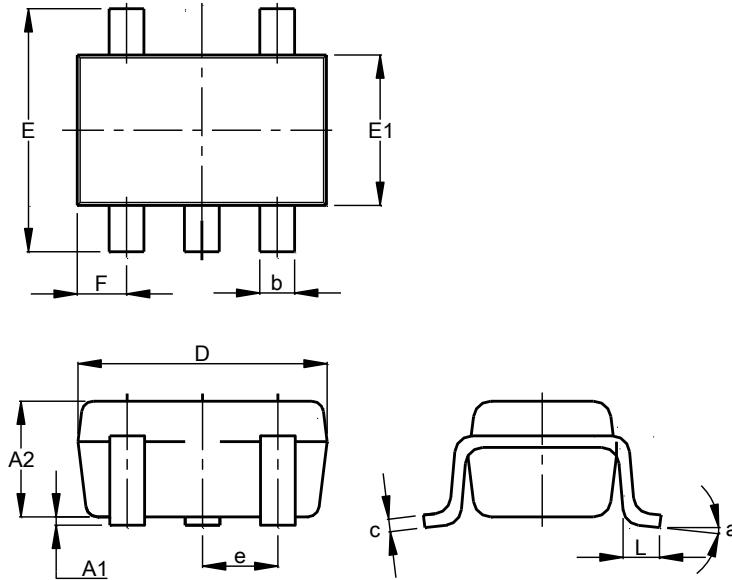
SOT353

SOT353			
Dim	**Min**	**Max**	**Typ**
A1	0.00	0.10	0.05
A2	0.90	1.00	1.00
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

SOT353
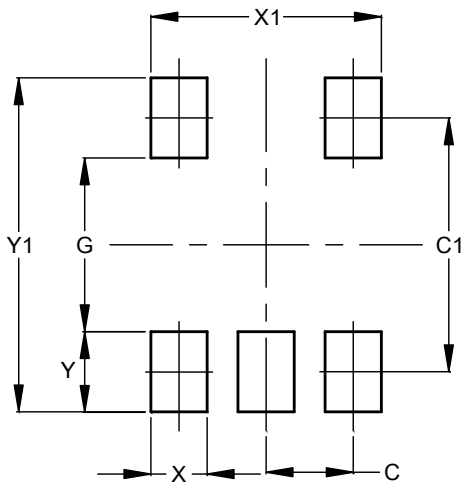
Dimensions	Value (in mm)
C	0.650
C1	1.900
G	1.300
X	0.420
X1	1.720
Y	0.600
Y1	2.500

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Package Outline Dimensions

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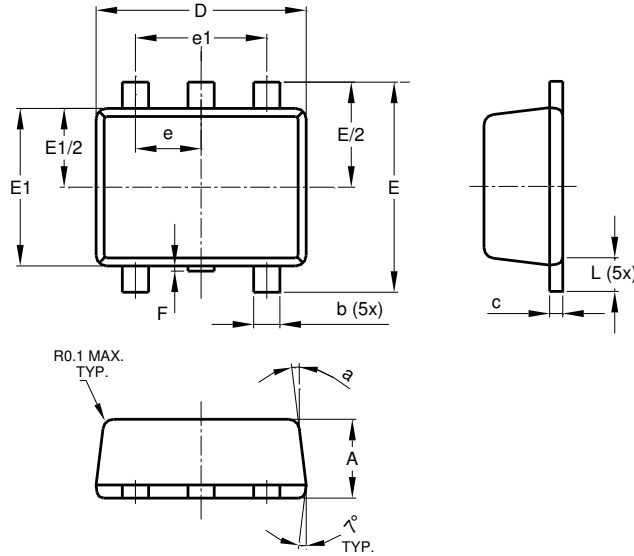
SOT553

SOT553			
Dim	**Min**	**Max**	**Typ**
A	0.55	0.62	0.60
b	0.15	0.30	0.20
c	0.10	0.18	0.15
D	1.50	1.70	1.60
E	1.55	1.70	1.60
E1	1.10	1.25	1.20
e	0.50 BSC		
e1	1.00 BSC		
F	0.00	0.10	—
L	0.10	0.30	0.20
a	6°	8°	7°
All Dimensions in mm			

Suggested Pad Layout

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

SOT553
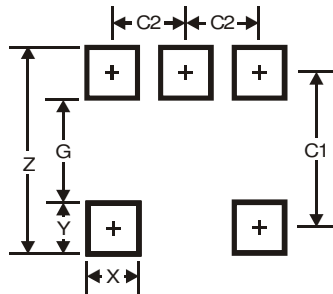
Dimensions	Value
Z	2.2
G	1.2
X	0.375
Y	0.5
C1	1.7
C2	0.5

74LVC1G06
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Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.
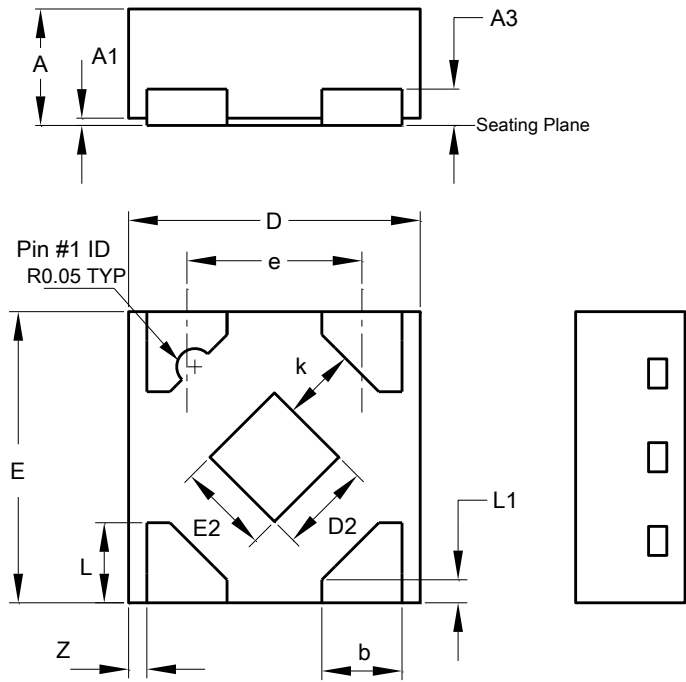
X2-DFN0808-4

X2-DFN0808-4			
Dim	**Min**	**Max**	**Typ**
A	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
E	0.75	0.85	0.80
E2	0.15	0.35	0.25
e	-	-	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
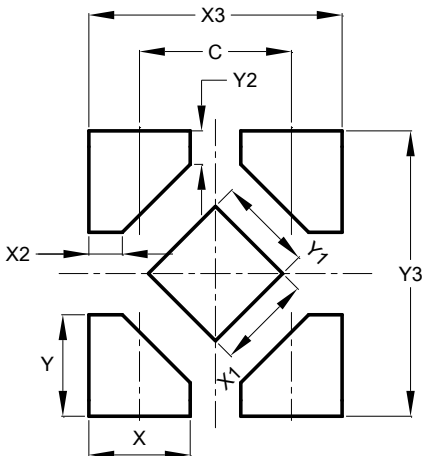
Dimensions	Value
C	0.480
X	0.320
X1	0.300
X2	0.106
X3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900

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Package Outline Dimensions

Please see http://www.diodes.com/package-outlines.html for the latest version.
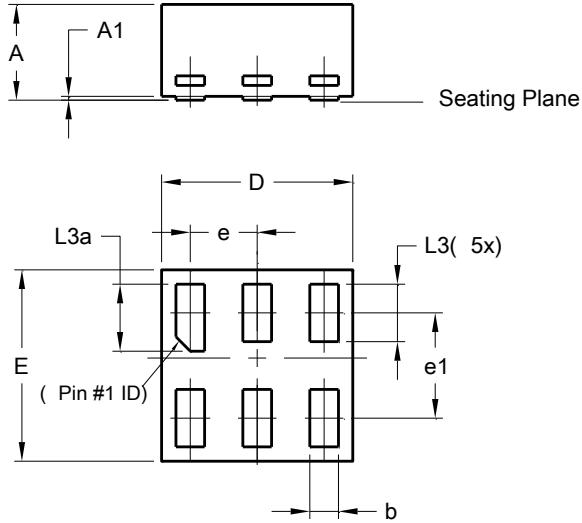
X1-DFN1010-6 (Type B)

X1-DFN1010-6 (Type B)		
Dim	**Min**	**Max**	**Typ**
A	-	0.50	0.39
A1	-	0.04	-
b	0.12	0.20	0.15
D	0.95	1.050	1.00
E	0.95	1.050	1.00
e	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)
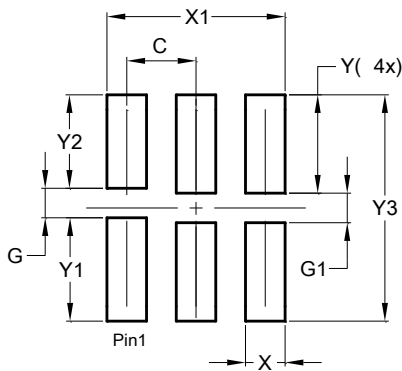
Dimensions	Value (in mm)
C	0.350
G	0.150
G1	0.150
X	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150

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Package Outline Dimensions

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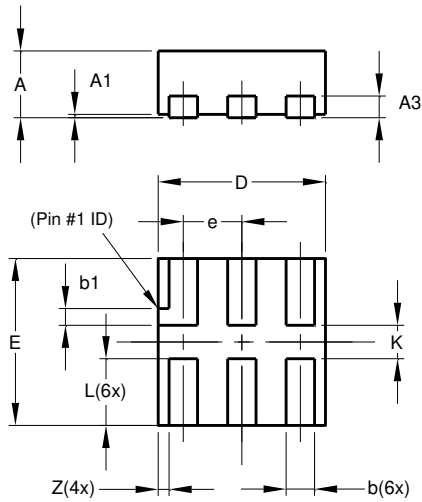
X2-DFN1010-6

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

X2-DFN1010-6
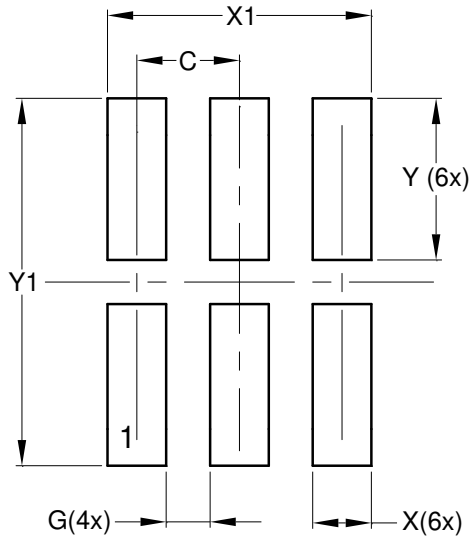
Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

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Package Outline Dimensions

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X2-DFN1409-6 CHIP SCALE ALTERNATIVE
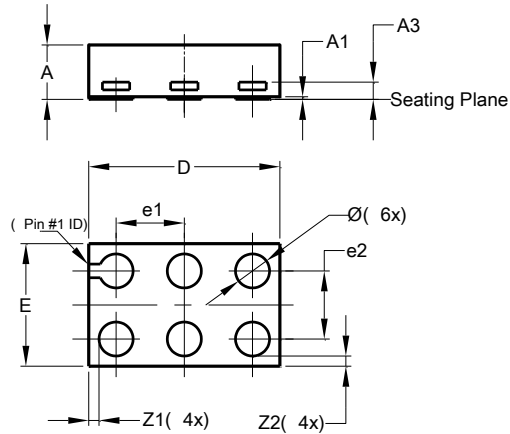
X2-DFN1409-6			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0	0.05	0.02
A3	-	-	0.13
Ø	0.20	0.30	0.25
D	1.35	1.45	1.40
E	0.85	0.95	0.90
e1	-	-	0.50
e2	-	-	0.50
Z1	-	-	0.075
Z2	-	-	0.075
All Dimensions in mm			

Suggested Pad Layout

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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE
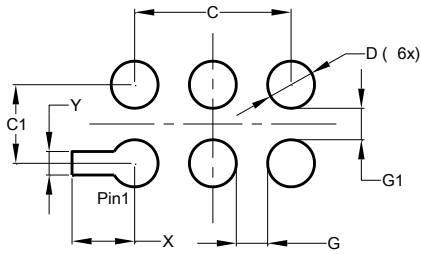
Dimensions	Value (in mm)
C	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
X	0.400
Y	0.150

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Package Outline Dimensions

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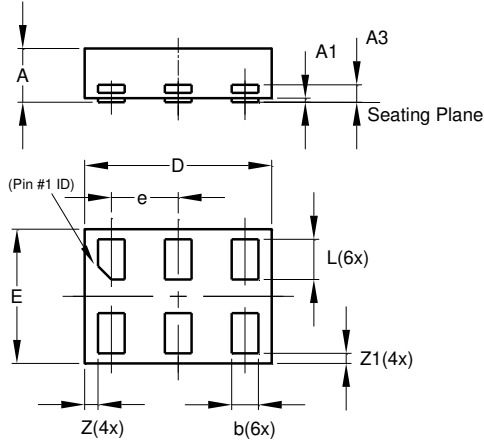
X2-DFN1410-6

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			

Suggested Pad Layout

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

X2-DFN1410-6
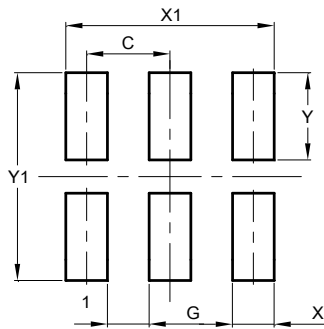
Dimensions	Value (in mm)
C	0.500
G	0.250
X	0.250
X1	1.250
Y	0.525
Y1	1.250

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