

## Description

The DIODES™ 74LVC2G34 is a dual buffer gate with standard push-pull outputs. 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<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output preventing damaging current backflow when the device is powered down.

The gate performs the positive Boolean function:

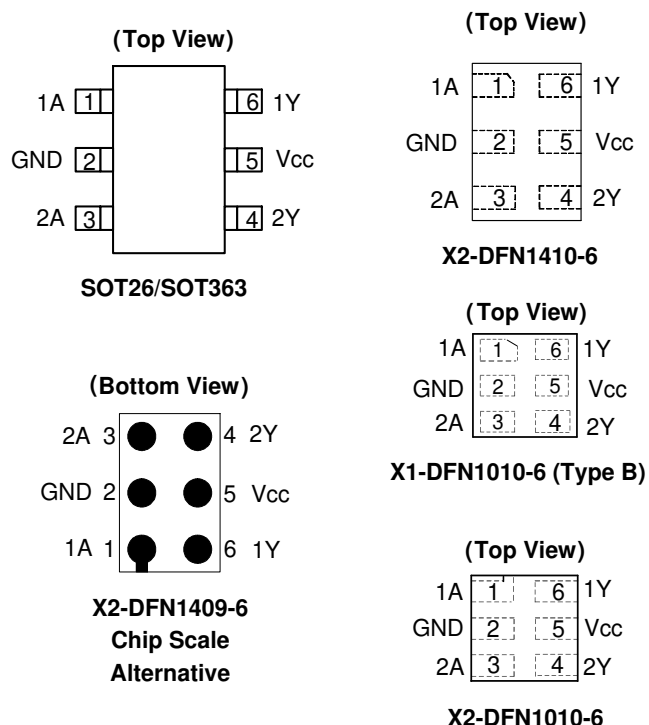
$$Y = A$$

## Features

- Wide Supply Voltage Range from 1.65V to 5.5V
- ±24mA Output Drive at 3.0V
- CMOS Low Power Consumption
- I<sub>OFF</sub> Supports Partial-Power-Down Mode Operation
- Inputs Accept up to 5.5V
- ESD Protection Tested per JESD 22
- Exceeds 2000V Human Body Model (A114)
- Exceeds 1000V Charged Device Model (C101)
- Latch-up Exceeds 100mA per JESD 78, Class I
- X2-DFN1409-6 Package Designed as a Direct Replacement for Chip Scale Packaging
- Range of Package Options SOT26, SOT363, X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, and X2-DFN1410-6
- Leadless Packages Named per JESD30E
- **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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](mailto:contact@diodes.com) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
  2. 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.

## Pin Assignments



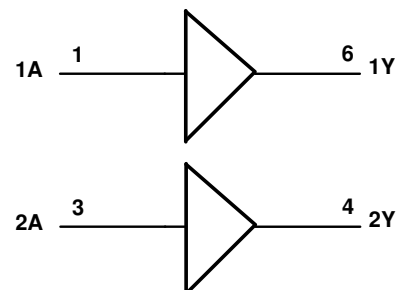
## Applications

- Voltage level shifting
- General purpose logics
- Power down signal isolations
- Wide array of products such as:
  - PCs, networking, notebooks, netbooks, tablets
  - Computer peripherals, hard drives, SSD, CD/DVD ROM
  - TV, DVD, DVR, set-top boxes
  - Cell phones, personal navigations/GPS
  - MP3 players, cameras, video recorders

## Pin Descriptions

Pin Number	Pin Name	Function
1	1A	Data Input
2	GND	Ground
3	2A	Data Input
4	2Y	Data Output
5	V <sub>CC</sub>	Supply Voltage
6	1Y	Data Output

## Logic Diagram



## Function Table

Inputs	Output
A	Y
H	H
L	L

## Absolute Maximum Ratings (Notes 4 & 5) (@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
V <sub>CC</sub>	Supply Voltage Range	-0.5 to +6.5	V
V <sub>I</sub>	Input Voltage Range	-0.5 to +6.5	V
V <sub>O</sub>	Voltage Applied to Output in High Impedance or I <sub>OFF</sub> State	-0.5 to +6.5	V
V <sub>O</sub>	Voltage Applied to Output in High or Low State	-0.3 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	-50	mA
—	Continuous Current through V <sub>DD</sub> or GND	±100	mA
T <sub>J</sub>	Operating Junction Temperature	-40 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

- Notes:
- Stresses greater than those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to *Absolute Maximum Ratings* for extended periods can affect device reliability.
  - 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 6) (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit	
V <sub>CC</sub>	Operating Voltage	Operating	1.65	5.5	V
		Data Retention Only	1.5	—	V
V <sub>IH</sub>	High-Level Input Voltage	V <sub>CC</sub> = 1.65V to 1.95V	0.65 x V <sub>CC</sub>	—	V
		V <sub>CC</sub> = 2.3V to 2.7V	1.7	—	
		V <sub>CC</sub> = 3V to 3.6V	2	—	
		V <sub>CC</sub> = 4.5V to 5.5V	0.7 x V <sub>CC</sub>	—	
V <sub>IL</sub>	Low-Level Input Voltage	V <sub>CC</sub> = 1.65V to 1.95V	—	0.35 x V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3V to 2.7V	—	0.7	
		V <sub>CC</sub> = 3V to 3.6V	—	0.8	
		V <sub>CC</sub> = 4.5V to 5.5V	—	0.3 x V <sub>CC</sub>	
V <sub>I</sub>	Input Voltage	0	5.5	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> = 1.65V	—	-4	mA
		V <sub>CC</sub> = 2.3V	—	-8	
		V <sub>CC</sub> = 3V	—	-16	
		V <sub>CC</sub> = 4.5V	—	-32	
I <sub>OL</sub>	Low-Level Output Current	V <sub>CC</sub> = 1.65V	—	4	mA
		V <sub>CC</sub> = 2.3V	—	8	
		V <sub>CC</sub> = 3V	—	16	
		V <sub>CC</sub> = 4.5V	—	32	
Δt/ΔV	Input Transition Rise or Fall Rate	V <sub>CC</sub> = 1.8V ± 0.15V, 2.5V ± 0.2V	—	20	ns/V
		V <sub>CC</sub> = 3.3V ± 0.3V	—	10	
		V <sub>CC</sub> = 5V ± 0.5V	—	5	
T <sub>A</sub>	Operating Free-Air Temperature	—	-40	+125	°C

Note: 6. Unused inputs should be held at V<sub>CC</sub> or Ground.

**Electrical Characteristics** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Symbol	Parameter	Test Conditions	V <sub>CC</sub>	+40°C to +85°C		-40°C to +125°C		Unit
				Min	Max	Min	Max	
V <sub>OH</sub>	High-Level Output Voltage	I <sub>OH</sub> = -100μA	1.65V to 5.5V	V <sub>CC</sub> - 0.1	—	V <sub>CC</sub> - 0.1	—	V
		I <sub>OH</sub> = -4mA	1.65V	1.2	—	0.95	—	
		I <sub>OH</sub> = -8mA	2.3V	1.9	—	1.7	—	
		I <sub>OH</sub> = -16mA	3V	2.4	—	2.2	—	
		I <sub>OH</sub> = -24mA		2.3	—	2.0	—	
		I <sub>OH</sub> = -32mA	4.5V	3.8	—	3.4	—	
V <sub>OL</sub>	Low-Level Output Voltage	I <sub>OL</sub> = 100μA	1.65V to 5.5V	—	0.1	—	0.1	V
		I <sub>OL</sub> = 4mA	1.65V	—	0.45	—	0.70	
		I <sub>OL</sub> = 8mA	2.3V	—	0.3	—	0.45	
		I <sub>OL</sub> = 16mA	3V	—	0.4	—	0.60	
		I <sub>OL</sub> = 24mA		—	0.55	—	0.80	
		I <sub>OL</sub> = 32mA	4.5V	—	0.55	—	0.80	
I <sub>I</sub>	Input Current	V <sub>I</sub> = 5.5V or GND	0 to 5.5V	—	±5	—	±20	μA
I <sub>OFF</sub>	Power Down Leakage Current	V <sub>I</sub> or V <sub>O</sub> = 5.5V	0	—	±10	—	±20	μA
I <sub>CC</sub>	Supply Current	V <sub>I</sub> = 5.5V or GND, I <sub>O</sub> = 0	1.65V to 5.5V	—	10	—	40	μA
ΔI <sub>CC</sub>	Additional Supply Current	Input at V <sub>CC</sub> - 0.6V	3V to 5.5V	—	500	—	5000	μA

**Package Characteristics** (@ $T_A = +25^\circ\text{C}$ ,  $V_{CC} = 3.3\text{V}$ , unless otherwise specified.)

Symbol	Parameter	Package	Conditions	Min	Typ	Max	Unit
$C_i$	Input Capacitance	Typical of All Packages	$V_{CC} = 3.3\text{V}$ $V_i = V_{CC}$ or GND	—	3.5	—	pF
$\theta_{JA}$	Thermal Resistance Junction-to-Ambient	SOT26	(Note 7)	—	204	—	$^\circ\text{C/W}$
		SOT363		—	371	—	
		X2-DFN1410-6		—	430	—	
		X2-DFN1409-6		—	450	—	
		X1-DFN1010-6 (Type B)		—	495	—	
		X2-DFN1010-6		—	510	—	
$\theta_{JC}$	Thermal Resistance Junction-to-Case	SOT26	(Note 7)	—	52	—	$^\circ\text{C/W}$
		SOT363		—	143	—	
		X2-DFN1410-6		—	190	—	
		X2-DFN1409-6		—	225	—	
		X1-DFN1010-6 (Type B)		—	245	—	
		X2-DFN1010-6		—	250	—	

Note: 7. Test condition for all packages: Device mounted on FR-4 substrate PC board, 2oz copper with minimum recommended pad layout.

**Switching Characteristics**

$T_A = -40^\circ\text{C}$  to  $+85^\circ\text{C}$ ,  $C_L = 30$  or  $50\text{pF}$  (See Figure 1)

Parameter	From (Input)	To (Output)	$V_{CC} = 1.8\text{V} \pm 0.15\text{V}$		$V_{CC} = 2.5\text{V} \pm 0.2\text{V}$		$V_{CC} = 3.3\text{V} \pm 0.3\text{V}$		$V_{CC} = 5\text{V} \pm 0.5\text{V}$		Unit
			Min	Max	Min	Max	Min	Max	Min	Max	
$t_{PD}$	A	Y	0.5	8.6	0.5	4.4	0.5	4.1	0.5	3.2	ns

$T_A = -40^\circ\text{C}$  to  $+125^\circ\text{C}$ ,  $C_L = 30$  or  $50\text{pF}$  (See Figure 1)

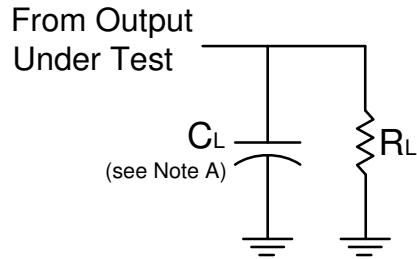
Parameter	From (Input)	To (Output)	$V_{CC} = 1.8\text{V} \pm 0.15\text{V}$		$V_{CC} = 2.5\text{V} \pm 0.2\text{V}$		$V_{CC} = 3.3\text{V} \pm 0.3\text{V}$		$V_{CC} = 5\text{V} \pm 0.5\text{V}$		Unit
			Min	Max	Min	Max	Min	Max	Min	Max	
$t_{PD}$	A	Y	0.5	10.8	0.5	5.5	0.5	5.1	0.5	4.0	ns

**Operating Characteristics**

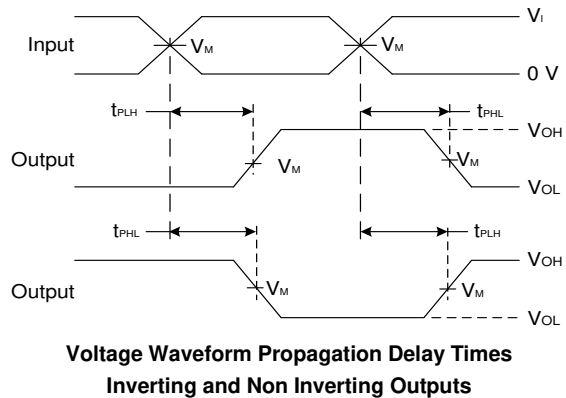
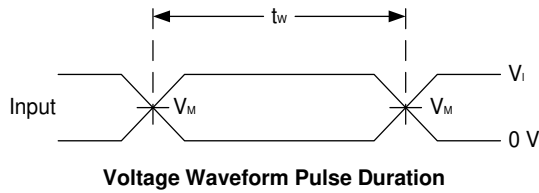
$T_A = +25^\circ\text{C}$

Parameter	Test Conditions	$V_{CC} = 1.8\text{V}$	$V_{CC} = 2.5\text{V}$	$V_{CC} = 3.3\text{V}$	$V_{CC} = 5\text{V}$	Unit
		Typ	Typ	Typ	Typ	
$C_{PD}$	Power Dissipation Capacitance $f = 10\text{MHz}$	17	19	20	21	pF

**Parameter Measurement Information**



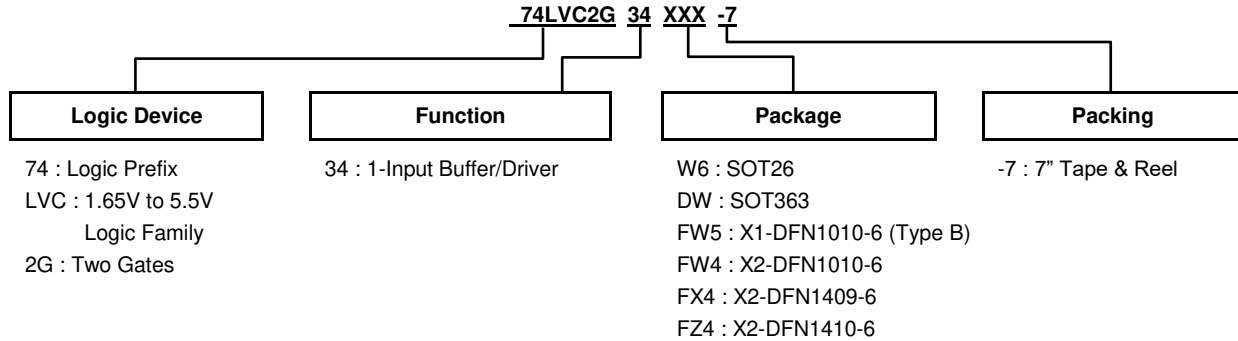
$V_{CC}$	Inputs		$V_M$	$C_L$	$R_L$
	$V_I$	$t_r/t_f$			
$1.8V \pm 0.15V$	$V_{CC}$	$\leq 2ns$	$V_{CC}/2$	30pF	1k $\Omega$
$2.5V \pm 0.2V$	$V_{CC}$	$\leq 2ns$	$V_{CC}/2$	30pF	500 $\Omega$
$3.3V \pm 0.3V$	3V	$\leq 2.5ns$	1.5V	50pF	500 $\Omega$
$5V \pm 0.5V$	$V_{CC}$	$\leq 2.5ns$	$V_{CC}/2$	50pF	500 $\Omega$



**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  $\leq 10MHz$ .
  - C. Inputs are measured separately one transition per measurement.
  - D.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{PD}$ .

## Ordering Information



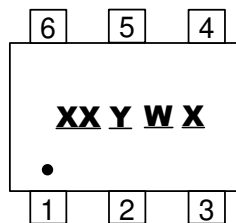
Part Number	Part Number Suffix	Package Code	Package (Note 8)	Package Size	Packing (Note 9)	
					Qty.	Carrier
74LVC2G34W6-7	-7	W6	SOT26	2.8mm x 2.2mm x 1.1mm 0.95mm Lead Pitch	3000	Tape & Reel
74LVC2G34DW-7	-7	DW	SOT363	2.0mm x 2.0mm x 1.1mm 0.65mm Lead Pitch	3000	Tape & Reel
74LVC2G34FW5-7	-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G34FW4-7	-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35mm Pad Pitch	5000	Tape & Reel
74LVC2G34FX4-7	-7	FX4	X2-DFN1409-6 Chip Scale Alternative	1.4mm x 0.9mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel
74LVC2G34FZ4-7	-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5mm Pad Pitch	5000	Tape & Reel

Notes: 8. Pad layout as shown on Diodes Incorporated's suggested pad layout, which can be found on our website at <http://www.diodes.com/package-outlines.html>.  
 9. The taping orientation is located on our website <https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf>.

## Marking Information

(1) SOT26, SOT363

(Top View)



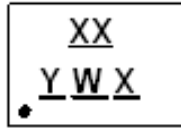
**XX**: Identification Code  
**Y**: Year 0 to 9 (ex: 2 = 2022)  
**W**: Week: A to Z: Week 1 to 26;  
 a to z: Week 27 to 52; z Represents  
 Week 52 and 53  
**X**: A to Z: Internal Code

Part Number	Package	Identification Code
74LVC2G34W6-7	SOT26	Z7
74LVC2G34DW-7	SOT363	Z7

**Marking Information** (continued)

(2) X1-DFN1010-6 (Type B), X2-DFN1010-6, X2-DFN1409-6, X2-DFN1410-6

(Top View)



XX: Identification Code

Y: Year 0 to 9 (ex: 2 = 2022)

W: Week: A to Z: Week 1 to 26;

a to z: Week 27 to 52; z Represents  
Week 52 and 53

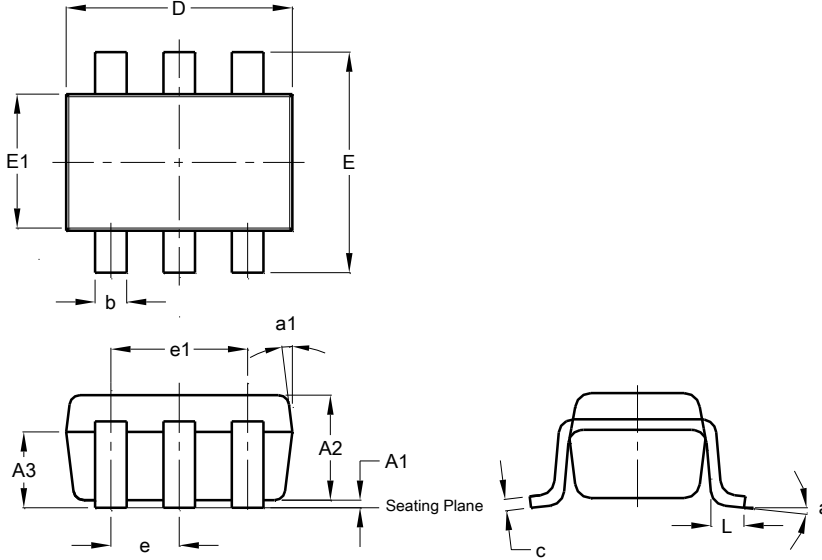
X: A to Z: Internal Code

Part Number	Package	Identification Code
74LVC2G34FW4-7	X2-DFN1010-6	Z7
74LVC2G34FW5-7	X1-DFN1010-6 (Type B)	W7
74LVC2G34FX4-7	X2-DFN1409-6	X7
74LVC2G34FZ4-7	X2-DFN1410-6	Z7

**Package Outline Dimensions**

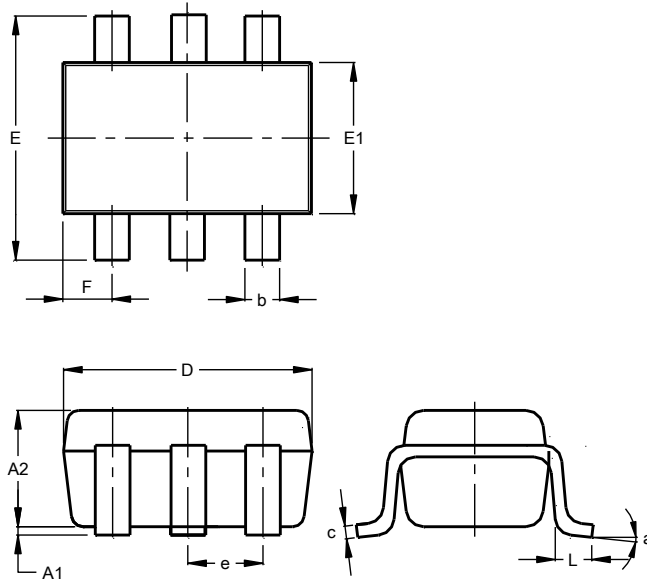
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**SOT26**



SOT26			
Dim	Min	Max	Typ
A1	0.013	0.10	0.05
A2	1.00	1.30	1.10
A3	0.70	0.80	0.75
b	0.35	0.50	0.38
c	0.10	0.20	0.15
D	2.90	3.10	3.00
e	-	-	0.95
e1	-	-	1.90
E	2.70	3.00	2.80
E1	1.50	1.70	1.60
L	0.35	0.55	0.40
a	-	-	8°
a1	-	-	7°
All Dimensions in mm			

**SOT363**



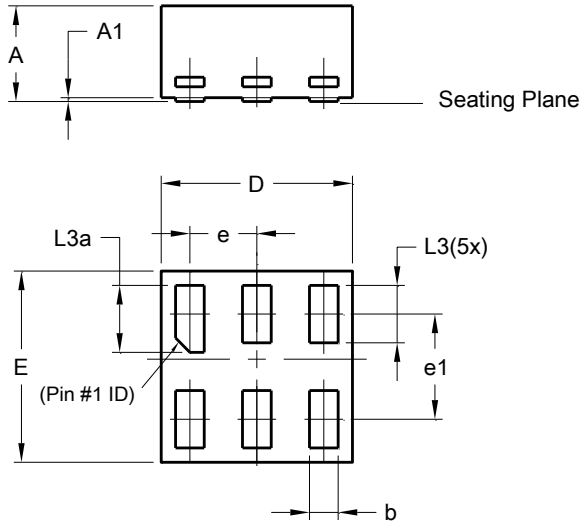
SOT363			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			



**Package Outline Dimensions** (continued)

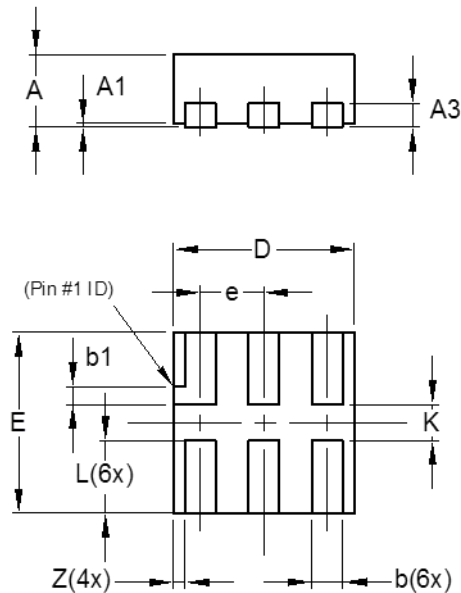
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**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			

**X2-DFN1010-6**

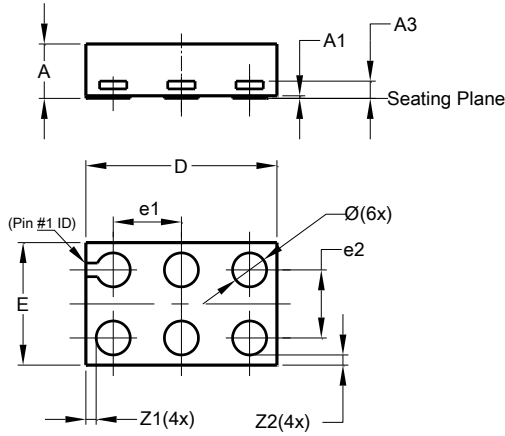


X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065
All Dimensions in mm			

**Package Outline Dimensions** (continued)

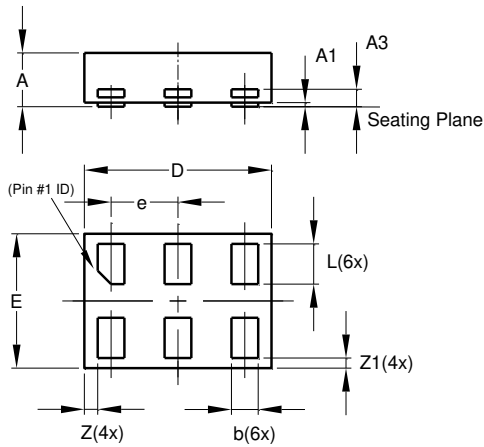
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**X2-DFN1409-6**



X2-DFN1409-6			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0	0.05	0.02
A3	-	-	0.13
$\varnothing$	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			

**X2-DFN1410-6**

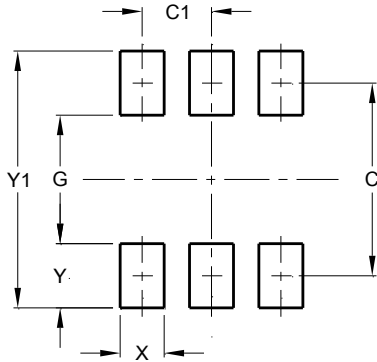


X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			

**Suggested Pad Layout**

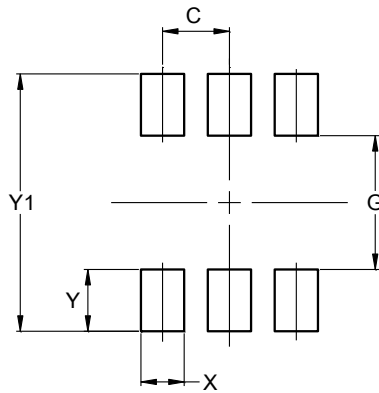
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**SOT26**



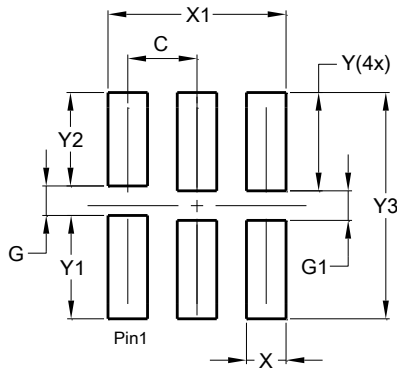
Dimensions	Value (in mm)
C	2.40
C1	0.95
G	1.60
X	0.55
Y	0.80
Y1	3.20

**SOT363**



Dimensions	Value (in mm)
C	0.650
G	1.300
X	0.420
Y	0.600
Y1	2.500

**X1-DFN1010-6 (Type B)**

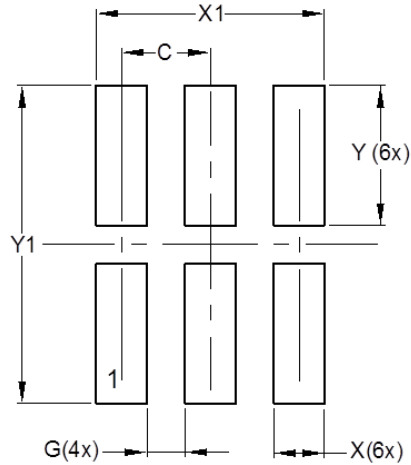


Dimensions	Value (in mm)
C	0.350
G	0.150
G1	0.150
X	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150

**Suggested Pad Layout** (continued)

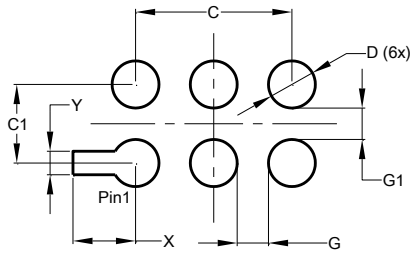
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**X2-DFN1010-6**



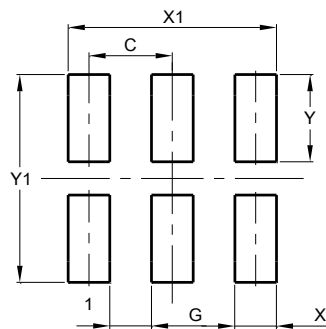
Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

**X2-DFN1409-6**



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

**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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## Mechanical Data

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### SOT26

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (e3)
- Weight: 0.016 grams (Approximate)

### SOT363

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (e3)
- Weight: 0.006 grams (Approximate)

### X1-DFN1010-6 (Type B)

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (e4)
- Weight: 0.001 grams (Approximate)

### X2-DFN1010-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (e4)
- Weight: 0.001 grams (Approximate)

### X2-DFN1409-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (e4)
- Weight: 0.002 grams (Approximate)

### X2-DFN1410-6

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish - NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (e4)
- Weight: 0.002 grams (Approximate)

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