



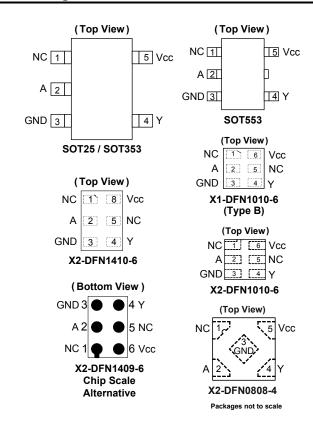
Description

The 74LVC1G34 is a single buffer 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:

$$Y = A$$

Pin Assignments



Features

- Wide Supply Voltage Range from 1.65V 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 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/
- An Automotive-Compliant Part is Available Under Separate Datasheet (74LVC1G34Q)

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 ROMs
 - TVs, DVDs, DVRs, Set-Top Boxes
 - Cell Phones, Personal Navigation / GPS
 - MP3 Players, Cameras, Video Recorders

Notes:

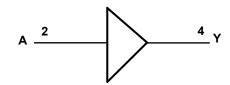
- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



Pin Descriptions

Pin Name	Description
NC	No Connection
А	Data Input
GND	Ground
Y	Data Output
Vcc	Supply Voltage

Logic Diagram



Function Table

Input	Output
Α	Y
Н	Н
L	L

Absolute Maximum Ratings (Notes 4 & 5) (@ T_A = +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
Vcc	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 I _{OFF} 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
Io	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:

- 4. Stresses beyond the absolute maximum can result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.
- 5. 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_A = +25°C, unless otherwise specified.)

Symbol	P	arameter	Min	Max	Unit
\ /	Operating Voltage	Operating	1.65	5.5	V
V_{CC}	Operating Voltage	Data Retention Only	1.5	_	V
		V _{CC} = 1.65V to 1.95V	$0.65 \times V_{CC}$	_	
.,	High Loyal Input Valtage	V _{CC} = 2.3V to 2.7V	1.7	_	V
V _{IH}	High-Level Input Voltage	V _{CC} = 3V to 3.6V	2	_]
		V _{CC} = 4.5V to 5.5V	0.7 × V _{CC}	_]
		V _{CC} = 1.65V to 1.95V	_	0.35 × V _{CC}	
.,,	Law Laval Innut Valtage	V _{CC} = 2.3V to 2.7V	_	0.7	V
V _{IL}	Low-Level Input Voltage	V _{CC} = 3V to 3.6V	_	0.8	ľ
		V _{CC} = 4.5V to 5.5V	_	$0.3 \times V_{CC}$	
VI	Input Voltage		0	5.5	V
Vo	Output Voltage		0	Vcc	V
		V _{CC} = 1.65V	_	-4	
		V _{CC} = 2.3V	_	-8	mA
la	High-Level Output Current	V _{CC} = 2.7V	_	-12	
Іон	High-Level Output Current	Vcc = 3V	_	-16	IIIA
		VCC = 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 Guirent	V _{CC} = 3V	_	16	
		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	$V_{CC} = 3.3V \pm 0.3V$	_	10	ns/V
		$V_{CC} = 5V \pm 0.5V$	_	5	
T _A	Operating Free-Air Temperature	_	-40	+125	°C

Note:

6. Unused inputs should be held at V_{CC} or Ground.



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

Comple al	Davamatav	Took Conditions	V	-4	0°C to +85°	С	-40°C to	+125°C	l lmi4
Symbol	Parameter	Test Conditions	V _{CC}	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
	Voltage	I _{OH} = -16mA	3V	2.4	_	_	2.2	_	
		I _{OH} = -24mA	3V	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
	Vollago	I _{OL} = 16mA	3V	_	_	0.4	_	0.6	
		I _{OL} = 24mA	30	_	_	0.55	_	0.8	
		I _{OL} = 32mA	4.5V	_	_	0.55	_	0.8	
lı	Input Current	V _I = 5.5V or GND	0V to 5.5V	_	±0.1	±1	_	±2	μA
I _{OFF}	Power Down Leakage Current	V_I or $V_O = 5.5V$	0V	_	_	±10	_	±10	μA
Icc	Supply Current	V _I = 5.5V or GND, I _O = 0	5.5V	_	0.1	1	_	10	μA
Δlcc	Additional Supply Current	Input at V _{CC} – 0.6V	3V to 5.5V			500	_	500	μΑ
Cı	Input Capacitance	V _I = V _{CC} or GND	3.3V	_	5	_	_	_	pF

Package Characteristics

Symbol	Parameter	Test Conditions	Vcc	Min	Тур	Max	Unit
•		SOT25		_	204	_	
		SOT353		_	371	_	
		SOT553		_	231	_	
	Thermal Resistance	X2-DFN0808-4	(Noto 7)	_	400	_	°C/W
θ_{JA}	Junction-to-Ambient	X1-DFN1010-6 (Type B)	(Note 7)	_	435	_	C/VV
		X2-DFN1010-6		_	445	_	
		X2-DFN1409-6		_	470	_	
		X2-DFN1410-6		_	460	_	
		SOT25		_	52	_	
		SOT353		_	143	_	
		SOT553		_	105	_	
0	θ _{JC} Thermal Resistance Junction-to-Case	X2-DFN0808-4	(Note 7)	_	225	_	°C/W
⊎JC		X1-DFN1010-6 (Type B)	(Note 7)	_	250	_	C/VV
		X2-DFN1010-6		_	250	_	
		X2-DFN1409-6		_	275	_	
		X2-DFN1410-6		_	265	_	

Note: 7. 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, 3.3V, and 5.0V.)

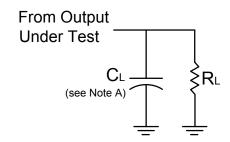
Parameter	From	То	Vaa	TA	= -40°C to +8	5°C	T _A = -40°C	to +125°C	Unit
	Input	Output	Vcc	Min	Тур	Max	Min	Max	J
			1.8V ± 0.15V	1.0	3.0	7.5	1.0	9.5	
			2.5V ± 0.2V	0.5	2.0	5.0	0.5	6.5	
t _{PD}	A or B	Y	2.7V	0.5	2.3	5.2	0.5	7.0	ns
			3.3V ± 0.3V	0.5	2.0	4.2	0.5	5.5	
			5.0V ± 0.5V	0.5	1.6	3.7	0.5	5.0	

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

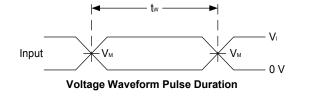
Parameter		Test Conditions	V _{CC} = 1.8V Typ	V _{CC} = 2.5V Typ	V _{CC} = 3.3V Typ	V _{CC} = 5V Typ	Unit
C _{PD}	Power Dissipation Capacitance	f = 10MHz	16	16	16	16	pF

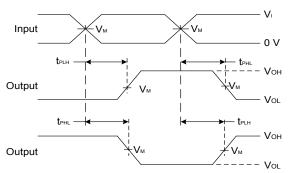


Parameter Measurement Information



.,	In	puts	V		
Vcc	V _I	t _R /t _F	V _M	CL	R_L
1.8V ± 0.15V	V _{CC}	≤2ns	V _{CC} /2	30pF	1kΩ
2.5V ± 0.2V	V _{CC}	≤2ns	V _{CC} /2	30pF	500Ω
2.7V	V _{CC}	≤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

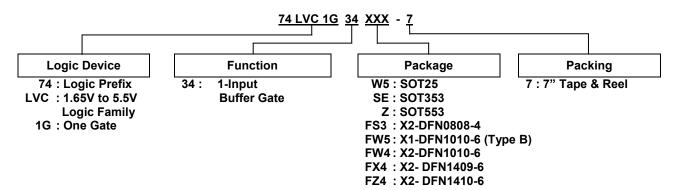
Notes: A. Includes test lead and test apparatus capacitance.

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

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



Ordering Information (Note 8)



		Package	7" Tape and	d Reel
Part Number	Package Code	(Notes 9 & 10)	Quantity	Part Number Suffix
74LVC1G34W5-7	W5	SOT25	3,000/Tape & Reel	-7
74LVC1G34SE-7	SE	SOT353	3,000/Tape & Reel	-7
74LVC1G34Z-7	Z	SOT553	4,000/Tape & Reel	-7
74LVC1G34FS3-7	FS3	X2-DFN0808-4	5,000/Tape & Reel	-7
74LVC1G34FW5-7	FW5	X1-DFN1010-6 (Type B)	5,000/Tape & Reel	-7
74LVC1G34FW4-7	FW4	X2-DFN1010-6	5,000/Tape & Reel	-7
74LVC1G34FX4-7	FX4	X2-DFN1409-6 (Chip Scale Alternative)	5,000/Tape & Reel	-7
74LVC1G34FZ4-7	FZ4	X2-DFN1410-6	5,000/Tape & Reel	-7

Notes:

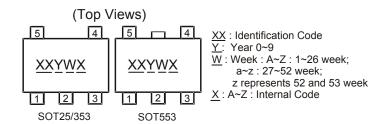
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^{8.} For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.
9. Pad layout as shown in Diodes Incorporated's package outline PDFs, which can be found on our website at http://www.diodes.com/package-outlines.html.
10. The taping orientation is located on our website at https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf.



Marking Information

(1) SOT25, SOT353 and SOT553



Part Number	Package	Identification Code	
74LVC1G34W5-7	SOT25	UK	
74LVC1G34SE-7	SOT353	UK	
74LVC1G34Z-7	SOT553	UK	

(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 \underline{X} : A~Z: Internal Code

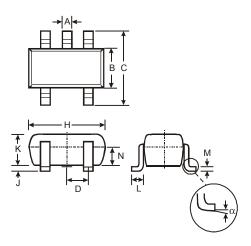
Part Number	Package	Identification Code
74LVC1G34FS3-7	X2-DFN0808-4	YV
74LVC1G34FW5-7	X1-DFN1010-6 (Type B)	VW
74LVC1G34FW4-7	X2-DFN1010-6	UK
74LVC1G34FX4-7	X2-DFN1409-6	MK
74LVC1G34FZ4-7	X2-DFN1410-6	UK



Package Outline Dimensions

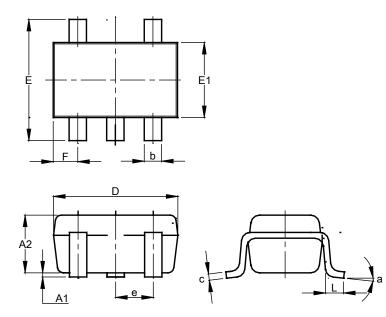
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



SOT25			
Dim	Min	Max	Тур
Α	0.35	0.50	0.38
В	1.50	1.70	1.60
O	2.70	3.00	2.80
ם	1	ı	0.95
Н	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			

(2) Package Type: SOT353



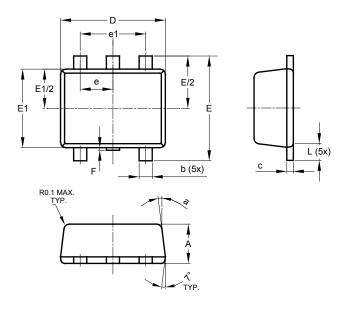
SOT353			
Dim	Min	Max	Тур
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
С	0.10	0.22	0.11
D	1.80	2.20	2.15
Е	2.00	2.20	2.10
E1	1.15	1.35	1.30
е	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
а	0°	8°	
All Dimensions in mm			



Package Outline Dimensions (continued)

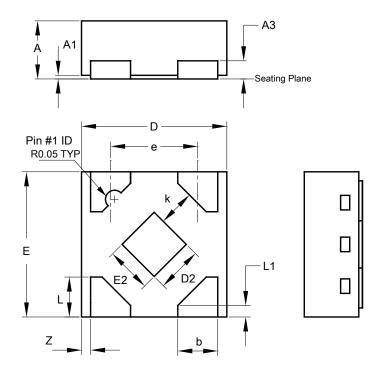
Please see http://www.diodes.com/package-outlines.html for the latest version.

(3) Package Type: 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	1.0	00 BS	\circ
F	0.00	0.10	
L	0.10	0.30	0.20
а	6°	8°	7°
All Dimensions in mm			

(4) Package Type: 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			
E	0.75	0.85	0.80			
E2	0.15	0.35	0.25			
е	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						

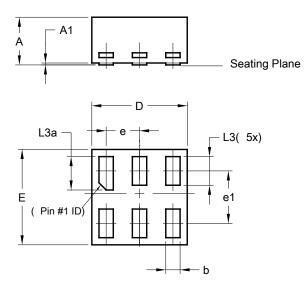
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Package Outline Dimensions (continued)

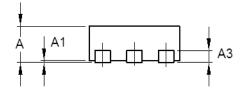
Please see http://www.diodes.com/package-outlines.html for the latest version.

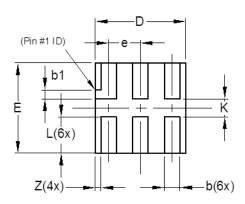
(5) Package Type: X1-DFN1010-6 (Type B)



X1-DFN1010-6 (Type B)					
Dim	Min	Max	Тур		
Α	-	0.50	0.39		
A1	-	0.04	-		
b	0.12	0.12 0.20 0.15			
D	0.95	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					

(6) Package Type: X2-DFN1010-6





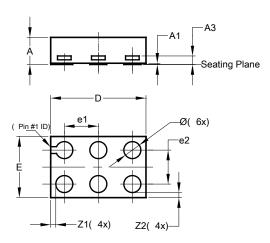
X2-DFN1010-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A1	0.00	0.05	0.02	
А3	_	-	0.13	
b	0.14	0.20	0.17	
b1	0.05	0.15	0.10	
D	0.95	1.05	1.00	
Е	0.95	1.05	1.00	
e — — 0.35				
L	0.35	0.45	0.40	
K	0.15	_	_	
Z	-	-	0.065	
All Dimensions in mm				



Package Outline Dimensions (continued)

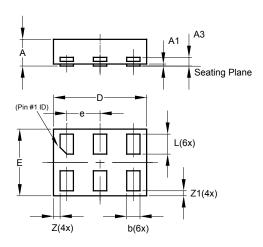
Please see http://www.diodes.com/package-outlines.html for the latest version.

(7) Package Type: X2-DFN1409-6



	X2-DFN1409-6				
Dim	Min	Max	Тур		
Α	-	0.40	0.39		
A1	0	0.05	0.02		
A3	-	1	0.13		
Ø	0.20	0.30	0.25		
D	1.35	1.45	1.40		
Е	0.85	0.95	0.90		
e1	e1 0.50				
e2	-	-	0.50		
Z1	-	-	0.075		
Z2	-	-	0.075		
All Dimensions in mm					

(8) Package Type: X2-DFN1410-6



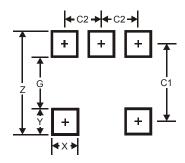
X2-DFN1410-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A1	0.00	0.05	0.02	
A3	_		0.13	
b	0.15	0.25	0.20	
D	1.35	1.45	1.40	
Е	0.95	1.05	1.00	
e — 0.50				
L	0.25	0.35	0.30	
Z			0.10	
Z1	0.045	0.105	0.075	
All Dimensions in mm				



Suggested Pad Layout

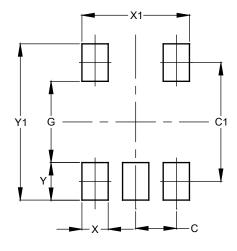
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



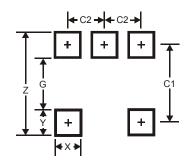
Dimensions	Value
Z	3.20
G	1.60
X	0.55
Y	0.80
C1	2.40
C2	0.95

(2) Package Type: SOT353



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

(3) Package Type: SOT553



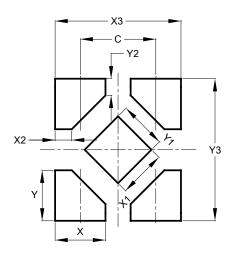
Dimensions	Value
Z	2.2
G	1.2
Х	0.375
Υ	0.5
C1	1.7
C2	0.5



Suggested Pad Layout (continued)

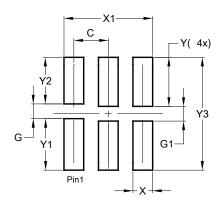
Please see http://www.diodes.com/package-outlines.html for the latest version.

(4) Package Type: X2-DFN0808-4



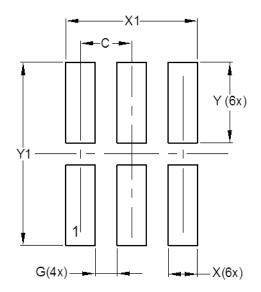
Dimensions	Value
С	0.480
Х	0.320
X1	0.300
X2	0.106
Х3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900

(5) Package Type: X1-DFN1010-6 (Type B)



Dimensions	Value (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

(6) Package Type: X2-DFN1010-6



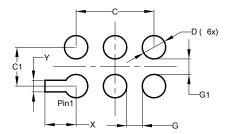
Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1.250



Suggested Pad Layout (continued)

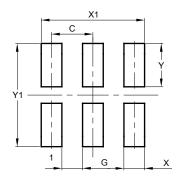
Please see http://www.diodes.com/package-outlines.html for the latest version.

(7) Package Type: X2-DFN1409-6



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

(8) Package Type: 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



Mechanical Data

SOT25

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Mate Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.016 grams (Approximate)

SOT353

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Mate Tin Plated Leads, Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.006 grams (Approximate)

SOT553

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Mate Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Weight: 0.003 grams (Approximate)

X2-DFN0808-4

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish NiPdAu Nickel Palladium Gold, Solderable per MIL-STD-202, Method 208 (4)
- Weight: 0.001 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 (4)
- 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 @
- 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 (4)
- 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 @
- Weight: 0.002 grams (Approximate)



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