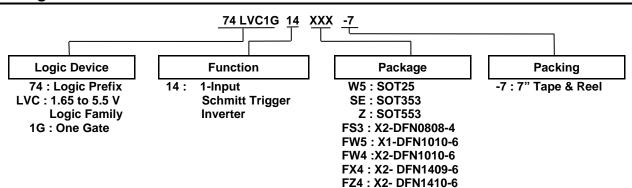


Ordering Information



Davies	Package	Package	Package	7" Tape	and Reel
Device	Code	(Notes 4 & 5)	Size	Quantity	Part Number Suffix
74LVC1G14W5-7	W5	SOT25	3.0mm × 2.8mm × 1.2mm 0.95mm Lead Pitch	3000/Tape & Reel	-7
74LVC1G14SE-7	SE	SOT353	2.0mm × 2.0mm × 1.1mm 0.65mm Lead Pitch	3000/Tape & Reel	-7
74LVC1G14Z-7	SE	SOT553	1.6mm × 1.6 mm × 0.62mm 0.5mm Lead Pitch	4000/Tape & Reel	-7
74LVC1G14FS3-7	FS3	X2-DFN0808-4	0.9mm × 0.9 mm × 0.35mm 0.5mm Pad Pitch (Diamond)	5000/Tape & Reel	-7
74LVC1G14FW5-7 (Future Product)	FW5	X1-DFN1010-6 (Future Product)	1.0mm × 1.0mm × 0.5mm 0.35mm Pad Pitch	5000/Tape & Reel	-7
74LVC1G14FW4-7	FW4	X2-DFN1010-6	1.0mm × 1.0mm × 0.4mm 0.35mm Pad Pitch	5000/Tape & Reel	-7
74LVC1G14FX4-7	FX4	X2-DFN1409-6 (Chip Scale Alternative)	1.4mm × 0.9mm × 0.4mm 0.5mm Pad Pitch	5000/Tape & Reel	-7
74LVC1G14FZ4-7	FZ4	X2-DFN1410-6	1.4mm × 1.0mm × 0.4mm 0.5mm Pad Pitch	5000/Tape & Reel	-7

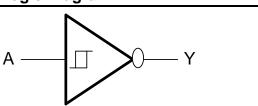
Notes:

- 4. Pad layout as shown on Diodes' suggested pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.
- 5. The taping orientation is located on our website at https://www.diodes.com/assets/Diodes-Packaging/ap02007.pdf.

Pin Descriptions

Pin Name	Description
Α	Data Input
GND	Ground
Υ	Data Output
Vcc	Supply Voltage

Logic Diagram



Function Table

Inputs	Output
Α	Υ
Н	L
L	Н



Absolute Maximum Ratings (Notes 6, 7)

Symbol	Description	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD MM	Machine Model ESD Protection	200	V
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 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
Io	Continuous Output Current	±50	mA
I _{CC,} I _{GND}	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 8)

Symbol		Parameter	Min	Max	Unit
\ <i>\</i>	On a noting a Malta as	Operating	1.65	5.5	V
Vcc	Operating Voltage	Data Retention Only	1.5	_	V
VI	Input Voltage		0	5.5	V
Vo	Output Voltage		0	Vcc	V
		V _{CC} = 1.65V	_	-4	
	DH High-Level Output Current	V _{CC} = 2.3V	_	-8	
		V _{CC} = 2.7V	_	-12	4
Іон			_	-16	mA
		Vcc = 3V	_	-24	
	on agreement canon	V _{CC} = 4.5V	_	-32	
		V _{CC} = 1.65V	_	4	
		V _{CC} = 2.3V	_	8	
	Lave Lavel Outset Outset	V _{CC} = 2.7V	_	12	4
loL	Low-Level Output Current		_	16	mA
		Vcc = 3V	_	24	
		V _{CC} = 4.5V	_	32	
T _A	Operating Free-Air Temperature	_	-40	+125	°C

Note:

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

^{6.} Stresses beyond the Absolute Maximum Ratings may result in immediate failure or reduced reliability. These are stress values and device operation should be within recommend values.7. 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 (@ $T_A = -40$ °C to +85°C. All typical values are at $V_{CC} = 3.3$ V, $T_A = +25$ °C)

Symbol	Parameter	Test Conditions	V _{CC}	Min	Тур.	Max	Unit
		_	1.65V	0.70	_	1.20	_
		_	2.3V	1.11	_	1.60	_
V_{T+}	- '	_	3V	1.50	_	2.00	_
	Threshold voltage	_	4.5V	2.16	_	2.74	_
		_	5.5V	2.61	_	3.33	_
		_	1.65V	0.30	_	0.72	_
		_	2.3V	0.58	_	1.00	_
V_{T-}		_	3V	0.80	_	1.30	_
	Threshold Voltage	_	4.5V	1.21	_	1.95	_
		_	5.5V	1.45	_	2.35	_
		_	1.65V	0.30	_	0.62	_
		_	2.3V	0.40	_	0.80	_
ΔV_T	1 -	_	3V	0.35	_	1.00	_
	(V _{T+} - V _{T-)}	_	4.5V	0.55	_	1.10	_
		_	5.5V	0.60	_	1.20	_
		I _{OH} = -100μA	1.65V to 5.5V	V _{CC} - 0.1	_		
		I _{OH} = -4mA	1.65V	1.2	_	_	
	Negative- Going Input Threshold Voltage Hysteresis (V _{T+} - V _{T-}) High Level Output Voltage Input Current Power Down Leakage Curren	I _{OH} = -8mA	2.3V	1.9	_	_	
V _{OH}	High Level Output Voltage	I _{OH} = -12mA	2.7V	2.2	_		V
		I _{OH} = -16mA		2.4	_	_	
	Negative- Going Input Threshold Voltage Hysteresis (V _{T+} - V _{T-}) High Level Output Voltage Low-Level Output Voltage Input Current Power Down Leakage Current Supply Current	I _{OH} = -24mA	3V	2.3	_	_	
		I _{OH} = -32mA	4.5V	3.8	_	_	
		I _{OL} = 100μA	1.65V to 5.5V	_	_	0.1	
		I _{OL} = 4mA	1.65V	_	_	0.45	
		I _{OL} = 8mA	2.3V	_	_	0.3	
V_{OL}	Low-Level Output Voltage	I _{OL} = 12mA	2.7V	_	_	0.4	V
		I _{OL} = 16mA		_	_	0.4	
		I _{OL} = 24mA	3V	_	_	0.55	
		I _{OL} = 32mA	4.5	_	_	0.55	
II	Input Current	V _I = 5.5 V or GND	0 to 5.5V	_	_	± 5	μA
l _{OFF}	Power Down Leakage Current		0	_	_	± 10	μA
Icc	_	V _I = 5.5V of GND I _O = 0	1.65V to 5.5V	_	_	10	μA
Δlcc	Additional Supply Current	Input at V _{CC} -0.6V	3V to 5.5V	_	_	500	μΑ



$\hline \textbf{Electrical Characteristics} \text{ (continued)} \text{ (} @T_{A} = -40^{\circ}\text{C to } +125^{\circ}\text{C}. \text{ All typical values are at V}_{CC} = 3.3\text{V}, T_{A} = +25^{\circ}\text{C})$

Symbol	Parameter	Test Conditions	V _{CC}	Min	Тур.	Max	Unit	
		_	1.65V	0.70	_	1.20		
		_	2.3V	1.11	_	1.60	_	
V_{T+}		_	3V	1.50	_	2.00	_	
	Negative- Going Input Threshold Voltage Hysteresis (V _{T+} - V _{T-}) High Level Output Voltage	_	4.5V	2.16	_	2.74		
		_	5.5V	2.61	_	3.33	_	
		_	1.65V	0.30	_	0.75	_	
		_	2.3V	0.58	_	1.03	_	
V_{T-}		_	3V	0.80	_	1.33	_	
	Threshold Voltage	_	4.5V	1.21	_	1.95		
		_	5.5V	1.45	_	2.35		
		_	1.65V	0.30	_	0.62	_	
		_	2.3V	0.37	_	0.80		
ΔV_{T}	'	_	3V	0.32	_	1.00	_	
	(V _{T+} - V _{T-})	_	4.5V	0.50	_	1.20	_	
		_	5.5V	0.55	_	1.40	_	
		I _{OH} = -100μA	1.65V to 5.5V	V _{CC} – 0.1	_	_		
		I _{OH} = -4mA	1.65V	0.95	_	_		
	н High Level Output Voltage	I _{OH} = -8mA	2.3V	1.7	_	_		
Vон	High Level Output Voltage	I _{OH} = -12mA	2.7V	1.9	_	_	V	
		I _{OH} = -16mA	2) (1.9	_	_		
	Negative- Going Input Threshold Voltage Hysteresis (V _{T+} - V _{T-}) High Level Output Voltage Low-Level Output Voltage Input Current Power Down Leakage Current Supply Current	I _{OH} = -24mA	3V	2.0	_	_		
		I _{OH} = -32mA	4.5V	3.4	_	_		
		I _{OL} = 100μA	1.65V to 5.5V	_	_	0.1		
		I _{OL} = 4mA	1.65V	_	_	0.7		
		I _{OL} = 8mA	2.3V	_	_	0.45		
V_{OL}	Low-Level Output Voltage	I _{OL} = 12mA	2.7V	_	_	0.6	V	
		I _{OL} = 16mA	2) (_	_	0.6		
		I _{OL} = 24mA	3V	_	_	0.8		
		I _{OL} = 32mA	4.5V	_	_	0.8		
l _l	Input Current	V _I = 5.5V or GND	0 to 5.5V	_	_	± 100	μA	
loff	Power Down Leakage Current	$V_1 \text{ or } V_0 = 5.5V$	0	_	_	± 200	μA	
Icc	Supply Current	V _I = 5.5V of GND I _O = 0	1.65V to 5.5V	_	_	200	μA	
ΔI _{CC}	Additional Supply Current	Input at V _{CC} –0.6V	3V to 5.5V	_	_	5000	μA	



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	_	
т	Thermal Resistance	X2-DFN0808-4	(NI=(= 0)	_	400	_	0000
θ_{JA}	Junction-to-Ambient	X1-DFN1010-6	(Note 9)	_	435	_	°C/W
		X2-DFN1010-6		_	445	_	
		X2-DFN1409-6		_	470	_	
		X2-DFN1410-6		_	460	_	
		SOT25		_	52	_	
		SOT353		_	143	_	°C/W
		SOT553		_	105	_	
	Thermal Resistance	X2-DFN0808-4	(1) (2)	_	225	_	
θ_{JC}	Junction-to-Case	X1-DFN1010-6	(Note 9)	_	250	_	
		X2-DFN1010-6		_	250	_	
		X2-DFN1409-6		_	275	_	
		X2-DFN1410-6		_	265	_	

Note: 9. 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

 $T_A = -40$ °C to +85°C, $C_L = 15$ pF as noted (see Figure 1)

Parameter	From Input	To Output	V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		Unit
			Min	Max	Min	Max	Min	Max	Min	Max	
t _{pd}	А	Y	1.0	9.9	0.7	5.5	0.7	4.6	0.7	4.4	ns

$T_A = -40$ °C to +85°C, $C_L = 30$ or 50pF as noted (See Figure 2)

Parameter	From Input	To Output	V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		Unit
			Min	Max	Min	Max	Min	Max	Min	Max	
t _{pd}	A	Y	1.0	11	0.7	6.5	0.7	5.5	0.7	5	ns

$T_A = -40$ °C to +125°C, $C_L = 15$ pF as noted (See Figure 1)

Parameter	From Input	To	V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		Unit
		Output	Min	Max	Min	Max	Min	Max	Min	Max	
t _{pd}	A	Y	1.0	12.5	0.7	7.5	0.7	6.5	0.7	5.5	ns

$T_A = -40$ °C to +125°C, $C_L = 30$ or 50pF as noted (See Figure 2)

Parameter	From Input	To Output	V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		Unit
			Min	Max	Min	Max	Min	Max	Min	Max	
t _{pd}	A	Y	1.0	14.0	0.7	8.5	0.7	7.0	0.7	6.5	ns

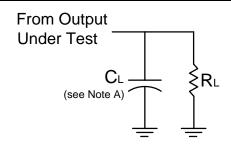


Operating Characteristics

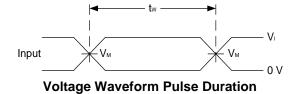
 $T_A = +25$ °C

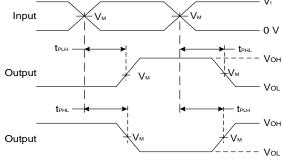
	Parameter	Test Conditions	V _{CC} = 1.8V Typ.	V _{CC} = 2.5V Typ.	V _{CC} = 3.3V Typ.	V _{CC} = 5V Typ.	Unit
C _{pd}	Power Dissipation Capacitance	f = 10 MHz	20	21	22	25	pF

Parameter Measurement Information



V _{CC}	In	puts	V _M	C _L	R _L	
• • • • • • • • • • • • • • • • • • • •	VI	t _r /t _f	Y WI	OL		
1.8V±0.15V	Vcc	≤2ns	V _{CC} /2	15pF	1ΜΩ	
2.5V±0.2V	V _{CC}	≤2ns	V _{CC} /2	15pF	1ΜΩ	
3.3V±0.3V	3V	≤2.5ns	1.5V	15pF	1ΜΩ	
5V±0.5V	V _{CC}	≤2.5ns	V _{CC} /2	15pF	1ΜΩ	





Voltage Waveform Propagation Delay Times Inverting and Non Inverting Outputs

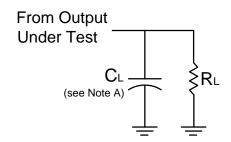
Figure 1. Load Circuit and Voltage Waveforms

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

- B. All pulses are supplied at pulse repetition rate ≤ 10MHz.
- C. Inputs are measured separately one transition per measurement.
- D. t_{PLH} and t_{PHL} are the same as t_{PD}.



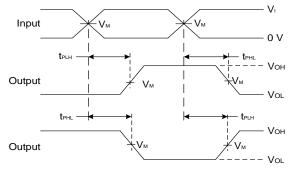
Parameter Measurement Information (continued)



V	In	puts	V		9	
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	
3.3V±0.3V	3V	≤2.5ns	1.5V	50pF	500Ω	
5V±0.5V	Vcc	≤2.5ns	V _{CC} /2	50pF	500Ω	







Voltage Waveform Propagation Delay Times Inverting and Non Inverting Outputs

Figure 2. Load Circuit and Voltage Waveforms

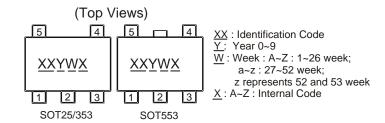
Notes: A. Includes test lead and test apparatus capacitance.

- B. All pulses are supplied at pulse repetition rate \leq 10MHz.
- C. Inputs are measured separately one transition per measurement.
- D. tpLH and tpHL are the same as tpD.



Marking Information

(1) SOT25, SOT353, and SOT553



Part Number	Package	Identification Code
74LVC1G14W5-7	SOT25	UP
74LVC1G14SE-7	SOT353	UP
74LVC1G14Z-7	SOT553	UP

(2) DFN Packages

(Top View)

XX $\underline{Y} \underline{W} \underline{X}$ $\begin{array}{l} \underline{XX}: \text{Identification Code} \\ \underline{Y}: \ \text{Year 0~9} \\ \underline{W}: \ \text{Week}: \ \text{A~Z}: \ \text{1~26 week}; \end{array}$

a~z: 27~52 week; z represents 52 and 53 week X: A~Z: Internal Code

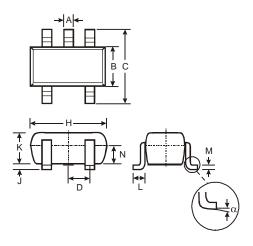
Part Number	Package	Identification Code
74LVC1G14FS3-7	X2-DFN0808-4	WP
74LVC1G14FW5-7	X1-DFN1010-6	V8
74LVC1G14FW4-7	X2-DFN1010-6	UP
74LVC1G14FX4-7	X2-DFN1409-6	MG
74LVC1G14FZ4-7	X2-DFN1410-6	UP



Package Outline Dimensions

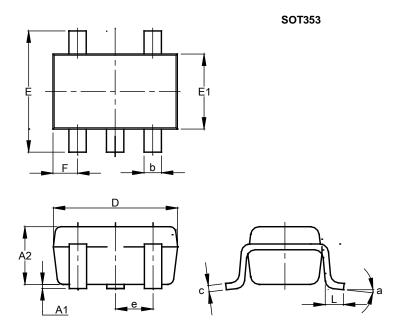
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



	SOT25					
Dim	Min	Max	Тур			
Α	0.35	0.50	0.38			
В	1.50	1.70	1.60			
U	2.70	3.00	2.80			
D	_		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			
М	0.10	0.20	0.15			
N	0.70	0.80	0.75			
а	0°	8°	_			
All D	All Dimensions in mm					

(2) Package Type: SOT353



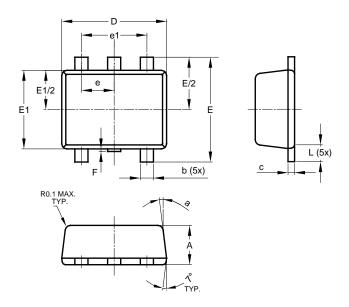
SOT353					
Dim	Min	Max	Тур		
A1	0.00	0.10	0.05		
A2	0.90	1.00	0.95		
b	0.10	0.30	0.25		
C	0.10	0.22	0.11		
D	1.80	2.20	2.15		
Е	2.00	2.20	2.10		
E1	1.15	1.35	1.30		
е	().650 B	SC		
F	0.40	0.45	0.425		
L	0.25	0.40	0.30		
а	0°	8°	_		
All Dimensions in mm					



Package Outline Dimensions (continued)

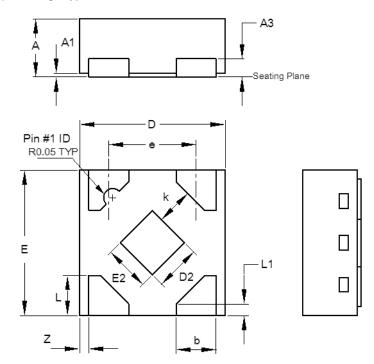
Please see http://www.diodes.com/package-outlines.html for the latest version.

(3) Package Type: SOT553



SOT553				
Dim	Min	Max	Тур	
Α	0.55	0.62	0.60	
b	0.15	0.30	0.20	
C	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 BS0	0	
e1	1.0	00 BS	0	
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	-	-	0.48		
k	0.20	-	-		
L	0.17	0.27	0.22		
L1	0.02	0.12	0.07		
z	-	-	0.05		
Α	All Dimensions in mm				

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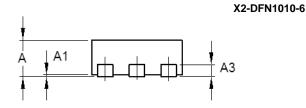
Package Outline Dimensions (continued)

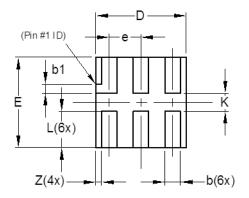
Please see http://www.diodes.com/package-outlines.html for the latest version.

(5) Package Type: X1-DFN1010-6

(Future Product)

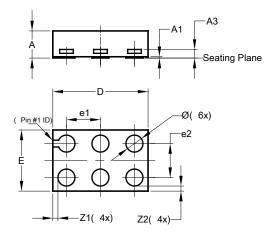
(6) Package Type X2-DFN1010-6





	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			
E	0.95	1.05	1.00			
е	_	_	0.35			
L	0.35	0.45	0.40			
K	0.15	_	_			
Z	_	_	0.065			
All [All Dimensions in mm					

(7) Package Type: X2-DFN1409-6



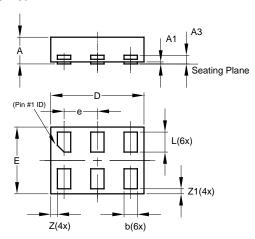
X2-DFN1409-6					
Dim	Min	Max	Тур		
Α	_	0.40	0.39		
A1	0	0.05	0.02		
A3	_	_	0.13		
Ø	0.20	0.30	0.25		
D	1.35	1.45	1.40		
Е	0.85	0.95	0.90		
e1	_	_	0.50		
e2	_	_	0.50		
Z 1	_	_	0.075		
Z2	_	_	0.075		
All I	All Dimensions in mm				



Package Outline Dimensions (continued)

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

(8) Package Type: X2-DFN1410-6



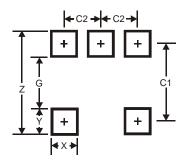
	X2-DFN1410-6					
Dim	Min	Max	Тур			
Α	_	0.40	0.39			
A1	0.00	0.05	0.02			
А3	_		0.13			
b	0.15	0.25	0.20			
D	1.35	1.45	1.40			
Е	0.95	1.05	1.00			
е	_	_	0.50			
٦	0.25	0.35	0.30			
Z		_	0.10			
Z 1	0.045	0.105	0.075			
All Dimensions in mm						



Suggested Pad Layout

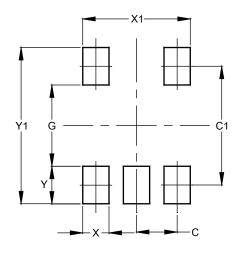
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



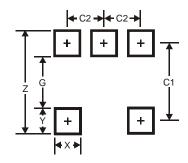
Dimensions	Value
Z	3.20
G	1.60
Х	0.55
Y	0.80
C1	2.40
C2	0.95

(2) Package Type: SOT353



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

(3) Package Type: SOT553



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

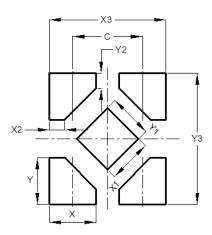
Downloaded from **Arrow.com.**



Suggested Pad Layout (continued)

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

(4) Package Type X2-DFN0808-4

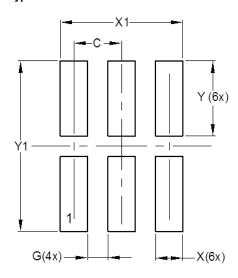


Dimensions	Value
С	0.480
X	0.320
X1	0.300
X2	0.106
Х3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900

(5) Package Type X1-DFN1010-6

(Future Product)

(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

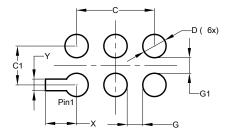
Downloaded from **Arrow.com.**



Suggested Pad Layout (continued)

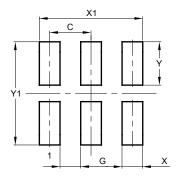
Please see http://www.diodes.com/package-outlines.html for the latest version.

(7) Package Type: X2-DFN1409-6



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

(8) Package Type: X2-DFN1410-6



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

August 2018
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