Pin Descriptions

Pin Name	Description
A	Data Input
GND	Ground
Y	Data Output
V_{CC}	Supply Voltage

Logic Diagram
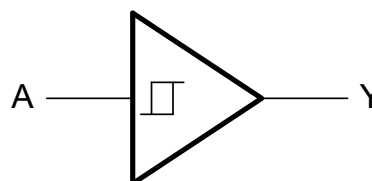
Function Table

Input	Output
A	**Y**
H	H
L	L

Absolute Maximum Ratings (Notes 4 & 5)

Symbol	Description	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD CDM	Charged Device Model ESD Protection	1	kV
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_{GND}	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: 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)

Symbol	Parameter		Min	Max	Unit
V_{CC}	Operating Voltage	Operating	1.65	5.5	V
		Data retention only	1.5	—	V
V_I	Input Voltage		0	5.5	V
V_O	Output Voltage		0	V_{CC}	V
I_{OH}	High-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	
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	
T_A	Operating Free-Air Temperature	—	-40	+125	°C

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

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Electrical Characteristics (@ T_A = -40°C to +85°C. All typical values are at V_{CC} = 3.3V, T_A = +25°C.)

Symbol	Parameter	Test Conditions	V_{CC}	Min	Typ	Max	Unit
V_{T+}	Positive-Going Input Threshold Voltage	—	1.65V	0.70	—	1.20	—
		—	2.3V	1.11	—	1.60	—
		—	3V	1.50	—	2.00	—
		—	4.5V	2.16	—	2.74	—
		—	5.5V	2.61	—	3.33	—
V_{T-}	Negative-Going Input Threshold Voltage	—	1.65V	0.30	—	0.72	—
		—	2.3V	0.58	—	1.00	—
		—	3V	0.80	—	1.30	—
		—	4.5V	1.21	—	1.95	—
		—	5.5V	1.45	—	2.35	—
ΔV_T	Hysteresis (V_{T+} - V_{T-})	—	1.65V	0.30	—	0.62	—
		—	2.3V	0.40	—	0.80	—
		—	3V	0.35	—	1.00	—
		—	4.5V	0.55	—	1.10	—
		—	5.5V	0.60	—	1.20	—
V_{OH}	High Level Output Voltage	I_{OH} = -100µA	1.65V to 5.5V	V_{CC} – 0.1	—	—	V
		I_{OH} = -4mA	1.65V	1.2	—	—	
		I_{OH} = -8mA	2.3V	1.9	—	—	
		I_{OH} = -12mA	2.7V	2.2	—	—	
		I_{OH} = -16mA	3V	2.4	—	—	
		I_{OH} = -24mA		2.3	—	—	
		I_{OH} = -32mA	4.5V	3.8	—	—	
V_{OL}	Low-Level Output Voltage	I_{OL} = 100µA	1.65V to 5.5V	—	—	0.1	V
		I_{OL} = 4mA	1.65V	—	—	0.45	
		I_{OL} = 8mA	2.3V	—	—	0.3	
		I_{OL} = 12mA	2.7V	—	—	0.4	
		I_{OL} = 16mA	3V	—	—	0.4	
		I_{OL} = 24mA		—	—	0.55	
		I_{OL} = 32mA	4.5V	—	—	0.55	
I_I	Input Current	V_I = 5.5V or GND	0 to 5.5V	—	—	± 5	µA
I_{OFF}	Power Down Leakage Current	V_I or V_O = 5.5V	0	—	—	± 10	µA
I_{CC}	Supply Current	V_I = 5.5V of GND I_O = 0	1.65V to 5.5V	—	—	10	µA
ΔI_{CC}	Additional Supply Current	Input at V_{CC} – 0.6V	3V to 5.5V	—	—	500	µA

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Electrical Characteristics (continued) (@ T_A = -40°C to +125°C. All typical values are at V_{CC} = 3.3V, T_A = +25°C.)

Symbol	Parameter	Test Conditions	V_{CC}	Min	Typ	Max	Unit
V_{T+}	Positive-Going Input Threshold Voltage	—	1.65V	0.70	—	1.20	—
		—	2.3V	1.11	—	1.60	—
		—	3V	1.50	—	2.00	—
		—	4.5V	2.16	—	2.74	—
		—	5.5V	2.61	—	3.33	—
V_{T-}	Negative-Going Input Threshold Voltage	—	1.65V	0.30	—	0.75	—
		—	2.3V	0.58	—	1.03	—
		—	3V	0.80	—	1.33	—
		—	4.5V	1.21	—	1.95	—
		—	5.5V	1.45	—	2.35	—
ΔV_T	Hysteresis (V_{T+} - V_{T-})	—	1.65V	0.30	—	0.62	—
		—	2.3V	0.37	—	0.80	—
		—	3V	0.32	—	1.00	—
		—	4.5V	0.50	—	1.20	—
		—	5.5V	0.55	—	1.40	—
V_{OH}	High Level Output Voltage	I_{OH} = -100µA	1.65V to 5.5V	V_{CC} – 0.1	—	—	V
		I_{OH} = -4mA	1.65V	0.95	—	—	
		I_{OH} = -8mA	2.3V	1.7	—	—	
		I_{OH} = -12mA	2.7V	1.9	—	—	
		I_{OH} = -16mA	3V	2.2	—	—	
		I_{OH} = -24mA		2.0	—	—	
		I_{OH} = -32mA	4.5V	3.4	—	—	
V_{OL}	Low-Level Output Voltage	I_{OL} = 100µA	1.65V to 5.5V	—	—	0.1	V
		I_{OL} = 4mA	1.65V	—	—	0.7	
		I_{OL} = 8mA	2.3V	—	—	0.45	
		I_{OL} = 12mA	2.7V	—	—	0.6	
		I_{OL} = 16mA	3V	—	—	0.6	
		I_{OL} = 24mA		—	—	0.8	
		I_{OL} = 32mA	4.5V	—	—	0.8	
I_I	Input Current	V_I = 5.5V or GND	0 to 5.5V	—	—	±5	µA
I_{OFF}	Power Down Leakage Current	V_I or V_O = 5.5V	0	—	—	±10	µA
I_{CC}	Supply Current	V_I = 5.5V of GND I_O = 0	1.65V to 5.5V	—	—	10	µA
ΔI_{CC}	Additional Supply Current	Input at V_{CC} – 0.6V	3V to 5.5V	—	—	500	µA

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

Symbol	Parameter	Test Conditions	Vcc	Min	Typ	Max	Unit
θ_{JA}	Thermal Resistance Junction-to-Ambient	SOT25	(Note 7)	—	204	—	°C/W
		SOT353		—	371	—	
		SOT553		—	231	—	
		X2-DFN0808-4		—	400	—	
		X2-DFN1010-6		—	445	—	
		X2-DFN1409-6		—	470	—	
		X2-DFN1410-6		—	460	—	
θ_{JC}	Thermal Resistance Junction-to-Case	SOT25	(Note 7)	—	52	—	°C/W
		SOT353		—	143	—	
		SOT553		—	105	—	
		X2-DFN0808-4		—	225	—	
		X2-DFN1010-6		—	250	—	
		X2-DFN1409-6		—	275	—	
		X2-DFN1410-6		—	265	—	

Note: 7. Test condition for each of the 7 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 = 15pF 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}	A	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 = 30pF 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 = 15pF 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}	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 = 30pF 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

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Operating Characteristics

$T_A = +25°C$

Parameter		Test Conditions	V_{CC} = 1.8V	V_{CC} = 2.5V	V_{CC} = 3.3V	V_{CC} = 5V	Unit
			Typ	Typ	Typ	Typ	
C_{PD}	Power Dissipation Capacitance	f = 10MHz	20	22	23	25	pF

Parameter Measurement Information

From Output
Under Test

C_L
(see Note A)

R_L
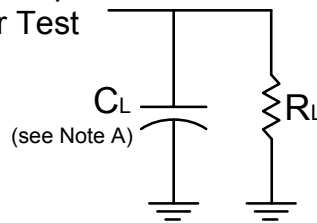
V_{CC}	Inputs		V_M	C_L	R_L
	V_I	t_R/t_F			
1.8V±0.15V	V_{CC}	≤2ns	V_{CC}/2	15pF	1MΩ
2.5V±0.2V	V_{CC}	≤2ns	V_{CC}/2	15pF	1MΩ
3.3V±0.3V	3V	≤2.5ns	1.5V	15pF	1MΩ
5V±0.5V	V_{CC}	≤2.5ns	V_{CC}/2	15pF	1MΩ

t_W

Input

V_M

V_M

V_I

0 V

Voltage Waveform Pulse Duration

Input

V_M

V_M

V_I

0 V

t_{PLH}

t_{PHL}

Output

V_M

V_M

V_{OH}

V_{OL}

t_{PHL}

t_{PLH}

Output

V_M

V_M

V_{OH}

V_{OL}

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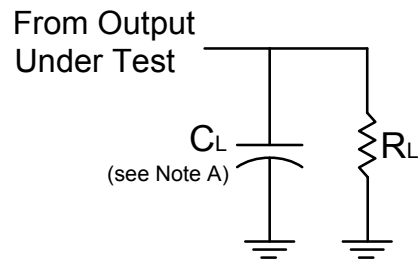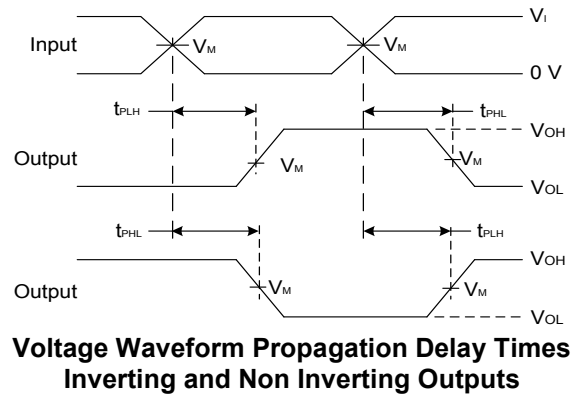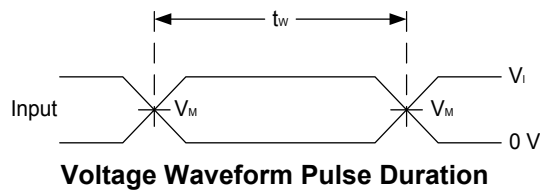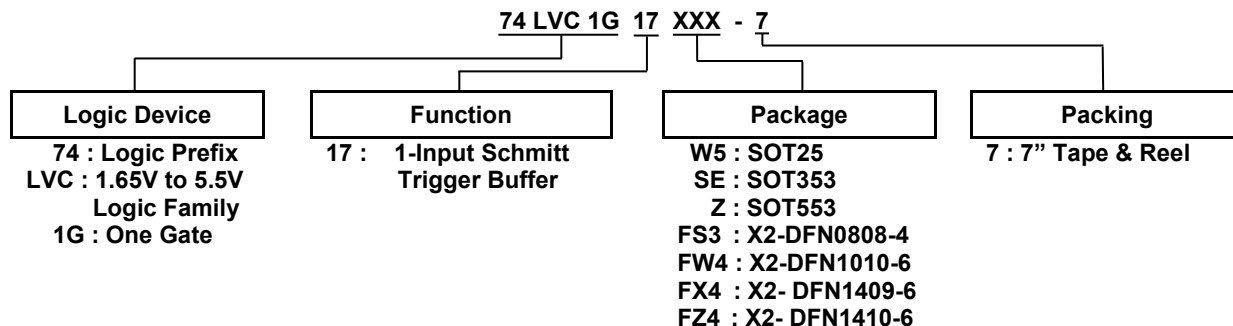Inverting and Non Inverting Outputs**
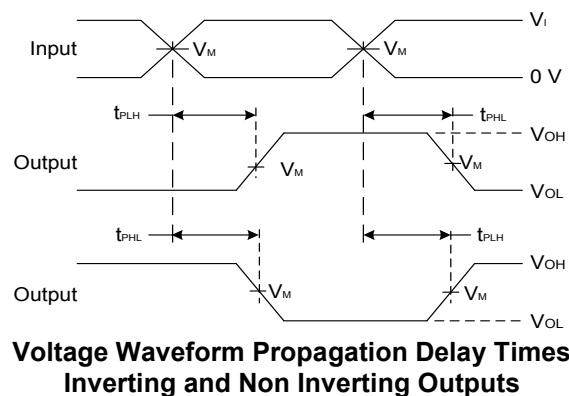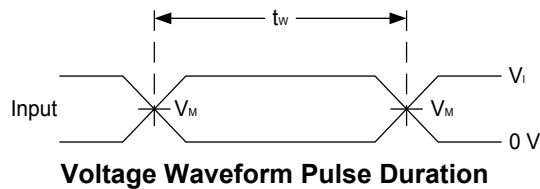
Figure 1. Load Circuit and Voltage Waveforms

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}.

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Parameter Measurement Information (continued)

V_CC	Inputs		V_M	C_L	R_L
	V_I	t_R/t_F			
1.8V±0.15V	V_{CC}	≤2ns	V_{CC}/2	30pF	1kΩ
2.5V±0.2V	V_{CC}	≤2ns	V_{CC}/2	30pF	500Ω
3.3V±0.3V	3V	≤2.5ns	1.5V	50pF	500Ω
5V±0.5V	V_{CC}	≤2.5ns	V_{CC}/2	50pF	500Ω

Voltage Waveform Pulse Duration

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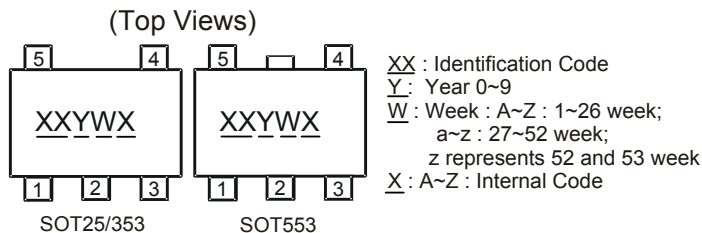D. t_{PLH} and t_{PHL} are the same as t_{PD}.

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Ordering Information (Note 8)

74 LVC 1G 17 XXX - 7

Logic Device	Function	Package	Packing
74 : Logic Prefix **LVC : 1.65V to 5.5V** **Logic Family** **1G : One Gate**	**17 : 1-Input Schmitt** **Trigger Buffer**	**W5 : SOT25** **SE : SOT353** **Z : SOT553** **FS3 : X2-DFN0808-4** **FW4 : X2-DFN1010-6** **FX4 : X2- DFN1409-6** **FZ4 : X2- DFN1410-6**	**7 : 7" Tape & Reel**

Device	Package Code	Package (Notes 9, 10)	7" Tape and Reel	
			Quantity	Part Number Suffix
74LVC1G17W5-7	W5	SOT25	3,000/Tape & Reel	-7
74LVC1G17SE-7	SE	SOT353	3,000/Tape & Reel	-7
74LVC1G17Z-7	Z	SOT553	4,000/Tape & Reel	-7
74LVC1G17FS3-7	FS3	X2-DFN0808-4	5,000/Tape & Reel	-7
74LVC1G17FW4-7	FW4	X2-DFN1010-6	5,000/Tape & Reel	-7
74LVC1G17FX4-7	FX4	X2-DFN1409-6 **(Chip Scale Alternative)**	5,000/Tape & Reel	-7
74LVC1G17FZ4-7	FZ4	X2-DFN1410-6	5,000/Tape & Reel	-7

Notes: 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.

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Marking Information

(1) SOT25, SOT353 and SOT553

(Top Views)

SOT25/353

SOT553

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
74LVC1G17W5-7	SOT25	UR
74LVC1G17SE-7	SOT353	UR
74LVC1G17Z-7	SOT553	UR

(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
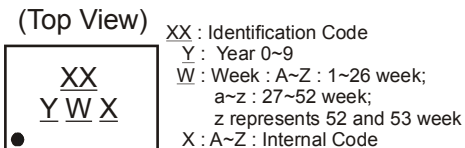
Part Number	Package	Identification Code
74LVC1G17FS3-7	X2-DFN0808-4	WR
74LVC1G17FW4-7	X2-DFN1010-6	UR
74LVC1G17FX4-7	X2-DFN1409-6	MH
74LVC1G17FZ4-7	X2-DFN1410-6	UR

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Package Outline Dimensions

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

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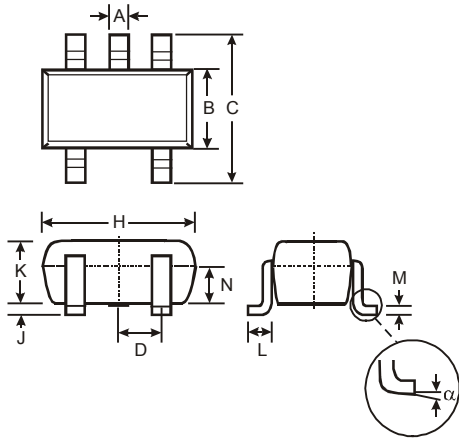
SOT25			
Dim	**Min**	**Max**	**Typ**
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

(2)   Package Type: SOT353
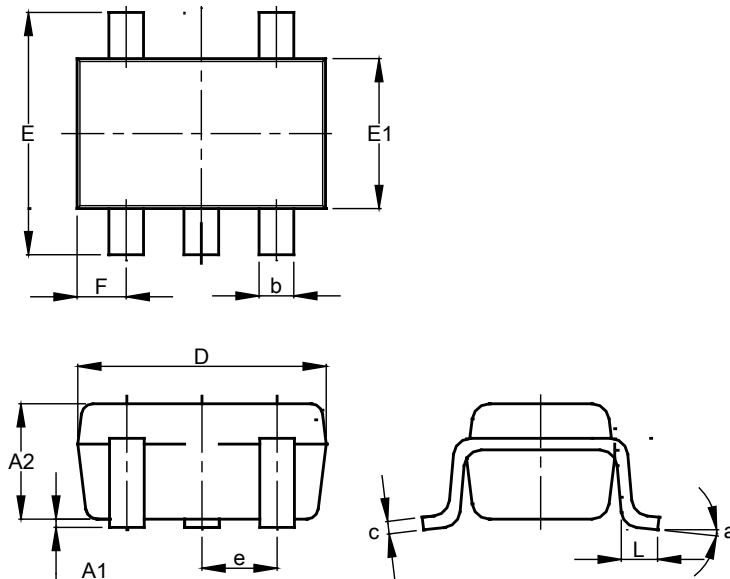
SOT353			
Dim	**Min**	**Max**	**Typ**
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

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Package Outline Dimensions (continued)

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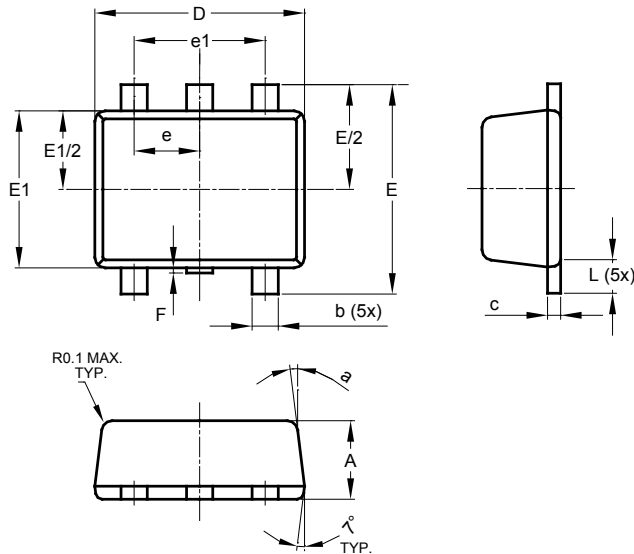
SOT553			
Dim	Min	Max	Typ
A	0.55	0.62	0.60
b	0.15	0.30	0.20
c	0.10	0.18	0.15
D	1.50	1.70	1.60
E	1.55	1.70	1.60
E1	1.10	1.25	1.20
e	0.50 BSC		
e1	1.00 BSC		
F	0.00	0.10	—
L	0.10	0.30	0.20
a	6°	8°	7°
All Dimensions in mm			

(4) Package Type: X2-DFN0808-4
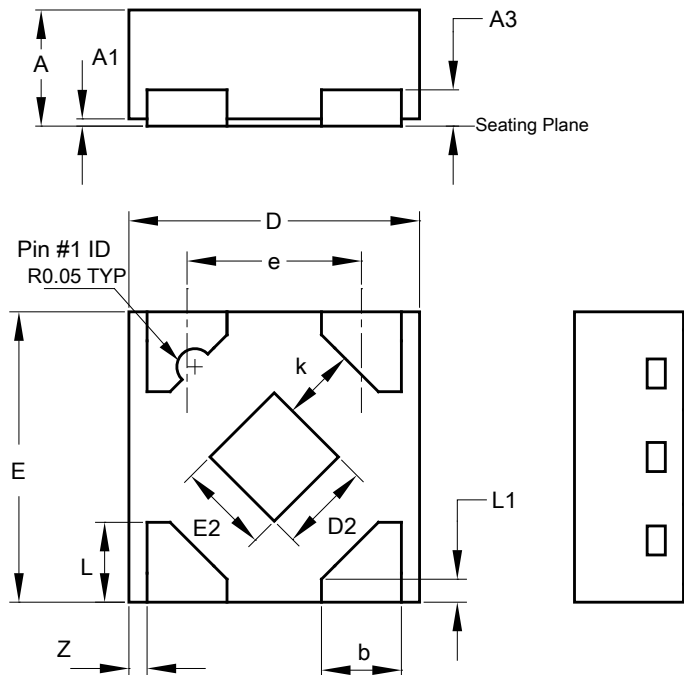
X2-DFN0808-4			
Dim	Min	Max	Typ
A	0.25	0.35	0.30
A1	0	0.04	0.02
A3	-	-	0.13
b	0.17	0.27	0.22
D	0.75	0.85	0.80
D2	0.15	0.35	0.25
E	0.75	0.85	0.80
E2	0.15	0.35	0.25
e	-	-	0.48
k	0.20	-	-
L	0.17	0.27	0.22
L1	0.02	0.12	0.07
z	-	-	0.05
All Dimensions in mm			

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Package Outline Dimensions (continued)

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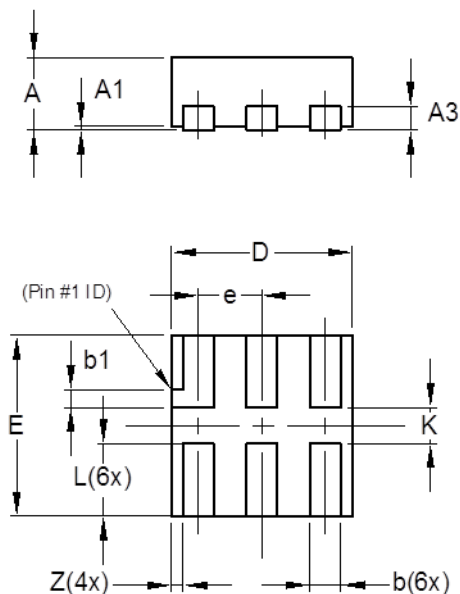
X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065
All Dimensions in mm			

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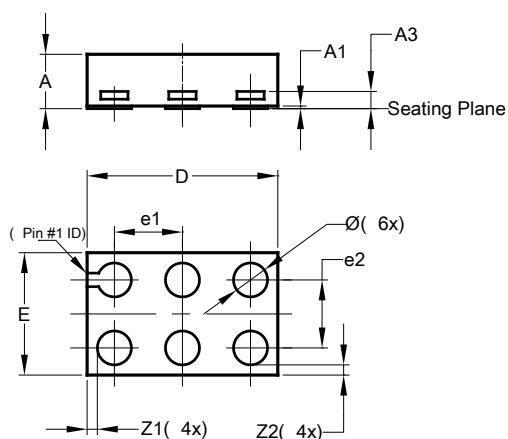
X2-DFN1409-6			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0	0.05	0.02
A3	-	-	0.13
Ø	0.20	0.30	0.25
D	1.35	1.45	1.40
E	0.85	0.95	0.90
e1	-	-	0.50
e2	-	-	0.50
Z1	-	-	0.075
Z2	-	-	0.075
All Dimensions in mm			

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Package Outline Dimensions (continued)

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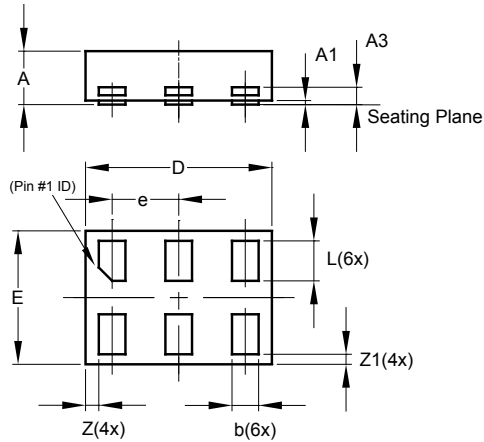
X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			

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Suggested Pad Layout

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(1)   Package Type: SOT25
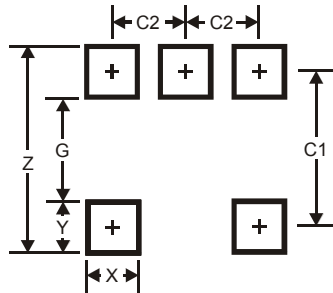
Dimensions	Value
Z	3.20
G	1.60
X	0.55
Y	0.80
C1	2.40
C2	0.95

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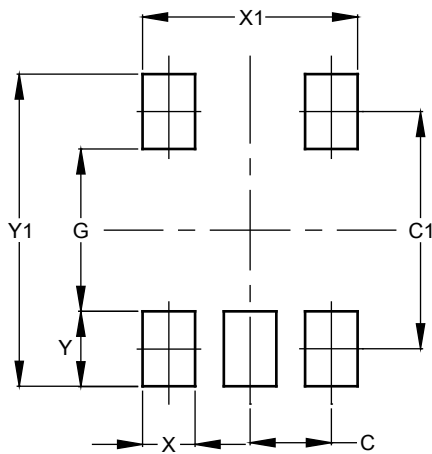
Dimensions	Value (in mm)
C	0.650
C1	1.900
G	1.300
X	0.420
X1	1.720
Y	0.600
Y1	2.500

(3)   Package Type: SOT553
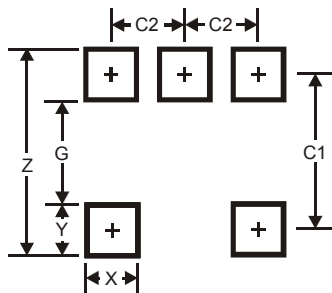
Dimensions	Value (in mm)
Z	2.2
G	1.2
X	0.375
Y	0.5
C1	1.7
C2	0.5

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Suggested Pad Layout (continued)

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(4)   Package Type: X2-DFN0808-4
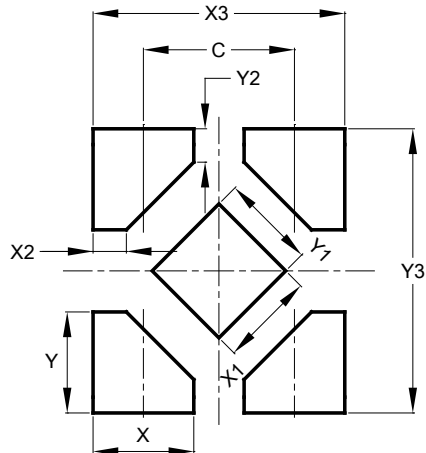
Dimensions	Value
C	0.480
X	0.320
X1	0.300
X2	0.106
X3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900

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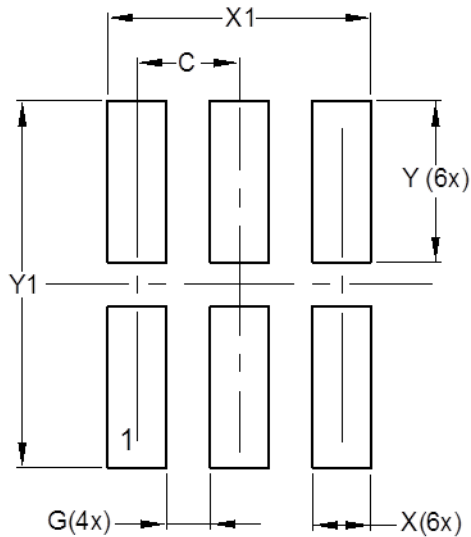
Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

(6)   Package Type: X2-DFN1409-6
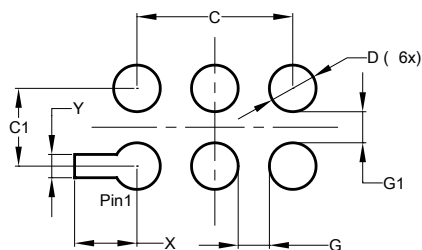
Dimensions	Value (in mm)
C	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
X	0.400
Y	0.150

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Suggested Pad Layout (continued)

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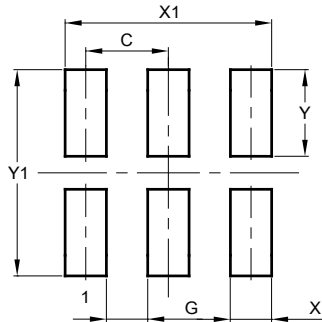
Dimensions	Value (in mm)
C	0.500
G	0.250
X	0.250
X1	1.250
Y	0.525
Y1	1.250

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)

X2-DFN1010-6

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

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