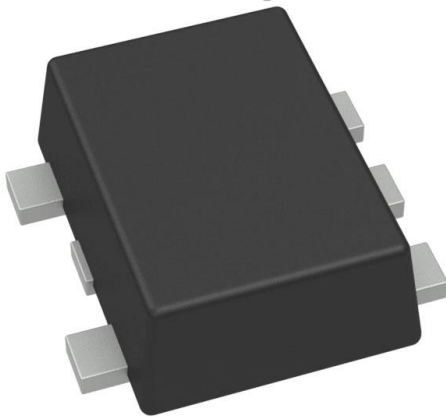


74LVC1G02Z-7 Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	74LVC1G02Z-7-DG
Manufacturer	Diodes Incorporated
Manufacturer Product Number	74LVC1G02Z-7
Description	IC GATE NOR 1CH 2-INP SOT553
Detailed Description	NOR Gate IC 1 Channel SOT-553



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

74LVC1G02Z-7

Series:

74LVC

Logic Type:

NOR Gate

Number of Inputs:

2

Voltage - Supply:

1.65V ~ 5.5V

Current - Output High, Low:

32mA, 32mA

Input Logic Level - High:

1.7V ~ 2V

Operating Temperature:

-40°C ~ 125°C

Supplier Device Package:

SOT-553

Base Product Number:

74LVC1G02

Manufacturer:

Diodes Incorporated

Product Status:

Active

Number of Circuits:

1

Features:

-

Current - Quiescent (Max):

200 μ A

Input Logic Level - Low:

0.7V ~ 0.8V

Max Propagation Delay @ V, Max CL:

1.7ns @ 5V, 50pF

Mounting Type:

Surface Mount

Package / Case:

SOT-553

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



74LVC1G02

SINGLE 2 INPUT POSITIVE NOR GATE

Description

The 74LVC1G02 is a single 2-input positive NOR 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_{OFF} . The I_{OFF} circuitry disables the output preventing damaging current backflow when the device is powered down.

The gate performs the positive Boolean function:

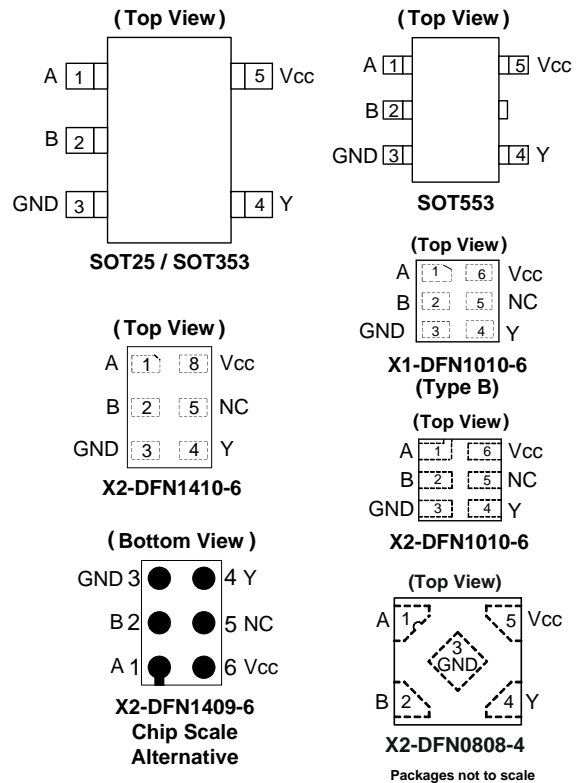
$$Y = \overline{A + B} \text{ or } Y = \overline{A} \cdot \overline{B}$$

Features

- Wide Supply Voltage Range from 1.65 to 5.5V
- ± 24 mA 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 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
- 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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](https://www.diodes.com/quality/product-definitions/) 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.

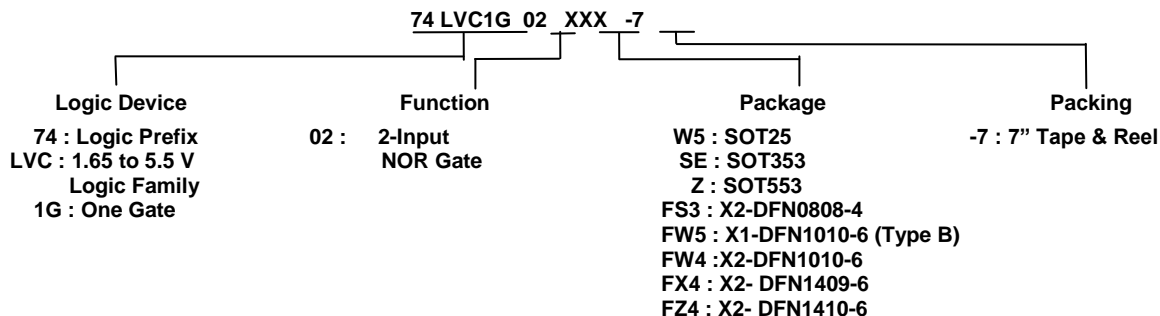
Pin Assignments



Applications

- Voltage level shifting
- General-purpose 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 boxes
 - Cell phones, personal navigation / GPS
 - MP3 players, cameras, video recorders

Ordering Information (Note 4)



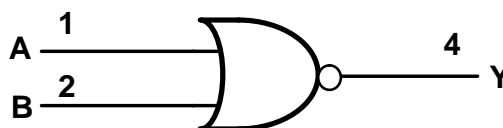
Orderable Part Number	Package Code	Package (Notes 5 & 6)	Package Size	Packing		
				Quantity	Carrier	Part Number Suffix
74LVC1G02W5-7	W5	SOT25	3.0mm x 2.8mm x 1.2mm 0.95 mm lead pitch	3,000	7" Tape & Reel	-7
74LVC1G02SE-7	SE	SOT353	2.0mm x 2.0mm x 1.1mm 0.65 mm lead pitch	3,000	7" Tape & Reel	-7
74LVC1G02Z-7	Z	SOT553	1.6mm x 1.6 mm x 0.62mm 0.5 mm lead pitch	4,000	7" Tape & Reel	-7
74LVC1G02FS3-7	FS3	X2-DFN0808-4	0.8mm x 0.8 mm x 0.35mm 0.5 mm pad pitch (diamond)	5,000	7" Tape & Reel	-7
74LVC1G02FW5-7	FW5	X1-DFN1010-6 (Type B)	1.0mm x 1.0mm x 0.5mm 0.35 mm pad pitch	5,000	7" Tape & Reel	-7
74LVC1G02FW4-7	FW4	X2-DFN1010-6	1.0mm x 1.0mm x 0.4mm 0.35 mm pad pitch	5,000	7" Tape & Reel	-7
74LVC1G02FX4-7	FX4	X2-DFN1409-6 Chip scale alternative	1.4mm x 0.9mm x 0.4mm 0.5 mm pad pitch	5,000	7" Tape & Reel	-7
74LVC1G02FZ4-7	FZ4	X2-DFN1410-6	1.4mm x 1.0mm x 0.4mm 0.5 mm pad pitch	5,000	7" Tape & Reel	-7

- Notes:
4. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.
 5. Pad layout as shown in our suggested pad layouts, which can be found on our website at see <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
A	Data Input
B	Data Input
GND	Ground
Y	Data Output
Vcc	Supply Voltage
NC	No Connection

Logic Diagram



Function Table

Inputs		Output
A	B	Y
H	X	L
X	H	L
L	L	H



74LVC1G02

Absolute Maximum Ratings (Notes 7 & 8)

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 _{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:
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)

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 3.6 V	—	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	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	
		V _{CC} = 4.5V	—	-24	
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	
		V _{CC} = 4.5V	—	24	
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.



74LVC1G02

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

Symbol	Parameter	Test Conditions	V_{CC}	-40°C to +85°C			-40°C to +125°C		Unit
				Min	Typ.	Max	Min	Max	
V_{OH}	High-Level Output Voltage	$I_{OH} = -100\mu A$	1.65V to 5.5V	$V_{CC} - 0.1$	—	—	$V_{CC} - 0.1$	—	V
		$I_{OH} = -4mA$	1.65V	1.2	—	—	0.95	—	
		$I_{OH} = -8mA$	2.3V	1.9	—	—	1.7	—	
		$I_{OH} = -12mA$	2.7V	2.2	—	—	1.9	—	
		$I_{OH} = -16mA$	3V	2.4	—	—	2.2	—	
		$I_{OH} = -24mA$		2.3	—	—	2.0	—	
		$I_{OH} = -32mA$	4.5V	3.8	—	—	3.4	—	
V_{OL}	Low-Level Output Voltage	$I_{OL} = 100\mu A$	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	
		$I_{OL} = 12mA$	2.7V	—	—	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	—	.8	
I_I	Input Current	$V_I = 5.5V$ 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	One input at $V_{CC} - 0.6V$ Other inputs at V_{CC} or GND	3V to 5.5V	—	—	500	—	5,000	μA
C_i	Input Capacitance	$V_i = V_{CC}$ or GND	3.3V	—	5	—	—	—	pF



74LVC1G02

Package Characteristics (All typical values are at $V_{CC} = 3.3V$, $T_A = 25^\circ C$)

Symbol	Parameter	Test Conditions	V_{CC}	Min	Typ.	Max	Unit
θ_{JA}	Thermal Resistance Junction-to-Ambient	SOT25	(Note 10)	—	204	—	$^\circ C/W$
		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	—	$^\circ C/W$
		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 $T_A = +25^\circ C$ and nominal voltages 1.8V, 2.5V, 2.7V, 3.3V, and 5.0V.

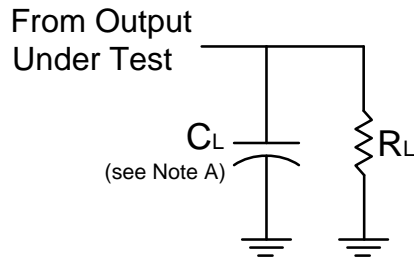
Parameter	From Input	To Output	V_{CC}	$T_A = -40^\circ C$ to $+85^\circ C$			$T_A = -40^\circ C$ to $+125^\circ C$		Unit
				Min	Typ	Max	Min	Max	
t_{pd}	A or B	Y	1.8V \pm 0.15V	1.0	3.2	8.0	1.0	10.5	ns
			2.5V \pm 0.2V	0.5	2.2	5.5	0.5	7.0	
			2.7V	0.5	2.5	5.5	0.5	7.0	
			3.3V \pm 0.3V	0.5	2.1	4.5	0.5	6.0	
			5.0V \pm 0.5V	0.5	1.7	4.0	0.5	5.5	

Operating Characteristics

$T_A = +25^\circ C$

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	$f = 10$ MHz	14	14	14	14	pF

Parameter Measurement Information



V_{CC}	Inputs		V_M	C_L	R_L
	V_I	t/t_f			
$1.8V \pm 0.15V$	V_{CC}	$\leq 2ns$	$V_{CC}/2$	30pF	1k Ω
$2.5V \pm 0.2V$	V_{CC}	$\leq 2ns$	$V_{CC}/2$	30pF	500 Ω
2.7V	V_{CC}	$\leq 2.5ns$	1.5V	50pF	500 Ω
$3.3V \pm 0.3V$	3.0V	$\leq 2.5ns$	1.5V	50pF	500 Ω
$5.0V \pm 0.5V$	V_{CC}	$\leq 2.5ns$	$V_{CC}/2$	50pF	500 Ω

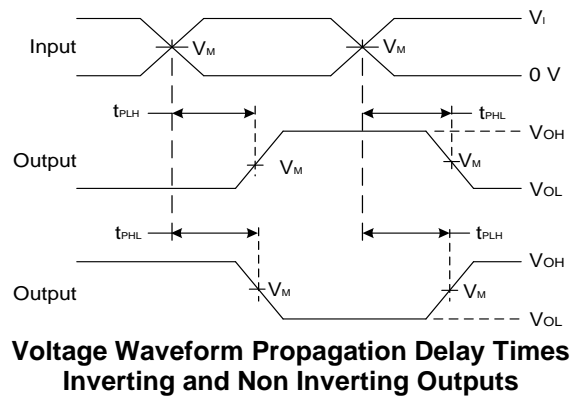
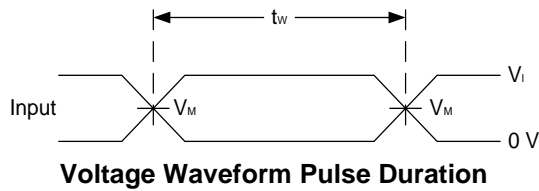
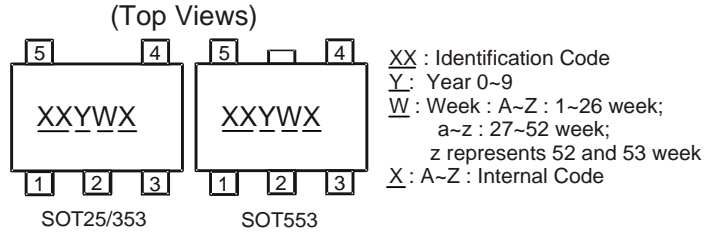


Figure 1. Load Circuit and Voltage Waveforms

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

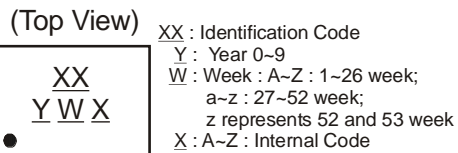
Marking Information

(1) SOT25, SOT353 and SOT553



Orderable Part Number	Package	Identification Code
74LVC1G02W5-7	SOT25	UT
74LVC1G02SE-7	SOT353	UT
74LVC1G02Z-7	SOT553	UT

(2) DFN packages

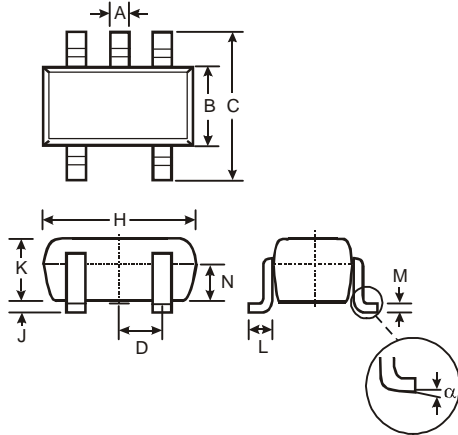


Orderable Part Number	Package	Identification Code
74LVC1G02FS3-7	X2-DFN0808-4	WT
74LVC1G02FW5-7	X1-DFN1010-6 (Type B)	V3
74LVC1G02FW4-7	X2-DFN1010-6	UT
74LVC1G02FX4-7	X2-DFN1409-6	MB
74LVC1G02FZ4-7	X2-DFN1410-6	UT

Package Outline Dimensions

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

SOT25

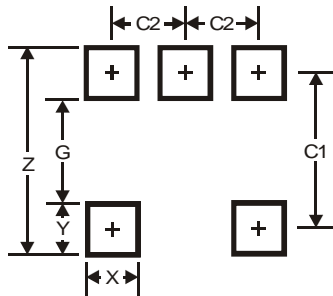


SOT25			
Dim	Min	Max	Typ
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

Suggested Pad Layout

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

SOT25

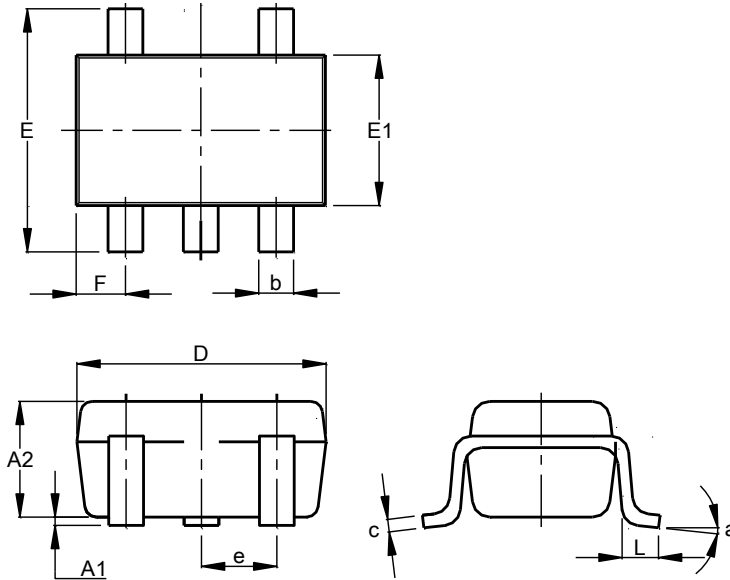


Dimensions	Value
Z	3.20
G	1.60
X	0.55
Y	0.80
C1	2.40
C2	0.95

Package Outline Dimensions

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

SOT353

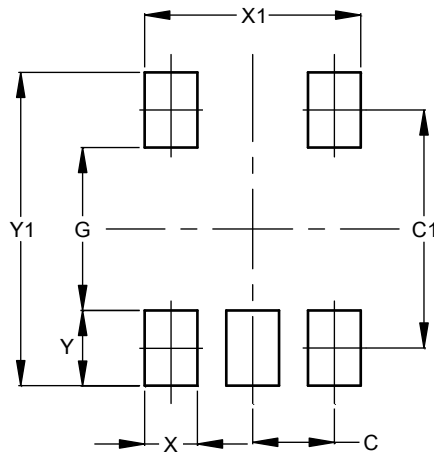


SOT353			
Dim	Min	Max	Typ
A1	0.00	0.10	0.05
A2	0.90	1.00	0.95
b	0.10	0.30	0.25
c	0.10	0.22	0.11
D	1.80	2.20	2.15
E	2.00	2.20	2.10
E1	1.15	1.35	1.30
e	0.650 BSC		
F	0.40	0.45	0.425
L	0.25	0.40	0.30
a	0°	8°	--
All Dimensions in mm			

Suggested Pad Layout

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

SOT353

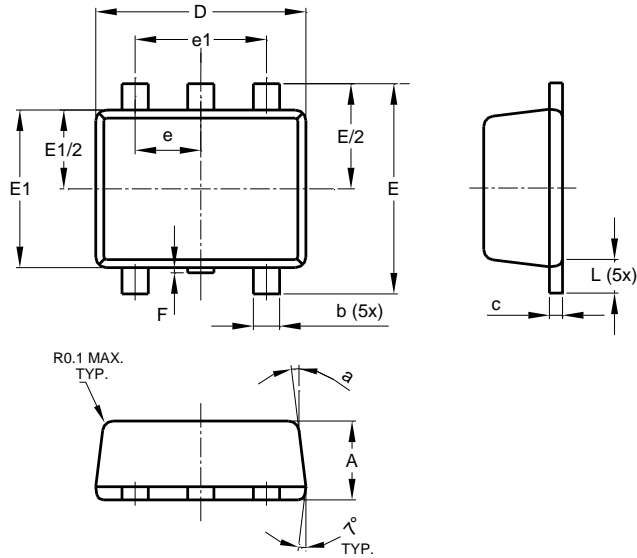


Dimensions	Value (in mm)
C	0.650
C1	1.900
G	1.300
X	0.420
X1	1.720
Y	0.600
Y1	2.500

Package Outline Dimensions

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

SOT553

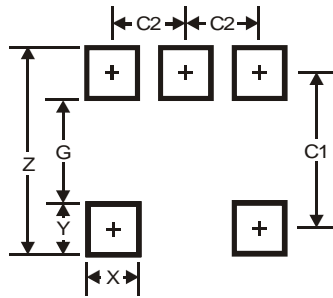


SOT553			
Dim	Min	Max	Typ
A	0.55	0.62	0.60
b	0.15	0.30	0.20
c	0.10	0.18	0.15
D	1.50	1.70	1.60
E	1.55	1.70	1.60
E1	1.10	1.25	1.20
e	0.50 BSC		
e1	1.00 BSC		
F	0.00	0.10	—
L	0.10	0.30	0.20
a	6°	8°	7°
All Dimensions in mm			

Suggested Pad Layout

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

SOT553

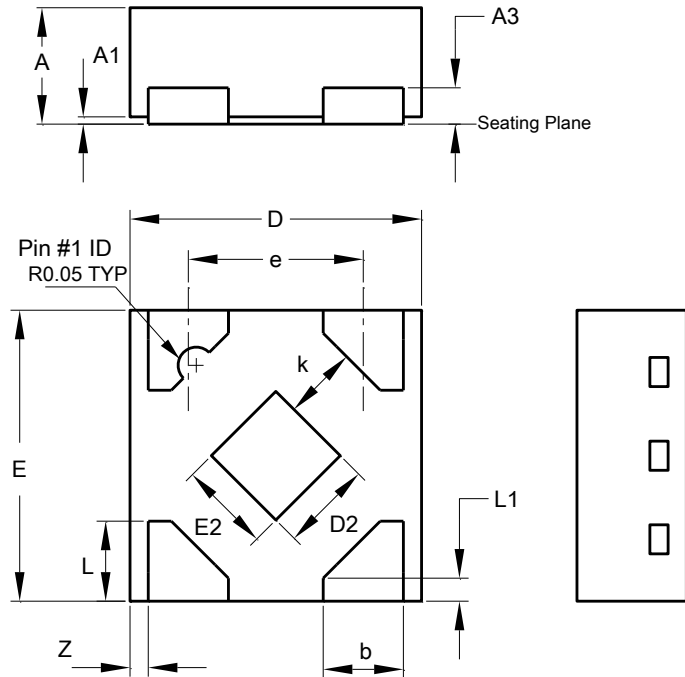


Dimensions	Value
Z	2.2
G	1.2
X	0.375
Y	0.5
C1	1.7
C2	0.5

Package Outline Dimensions

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

X2-DFN0808-4

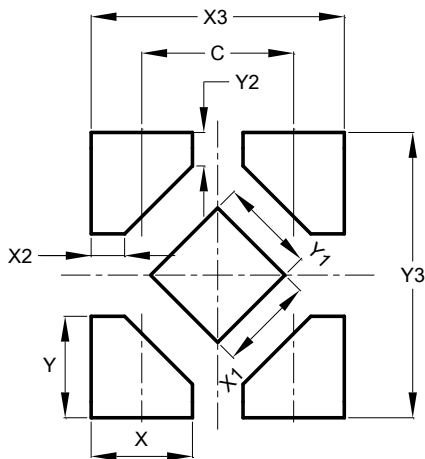


X2-DFN0808-4			
Dim	Min	Max	Typ
A	0.25	0.35	0.30
A1	0	0.04	0.02
A3	-	-	0.13
b	0.17	0.27	0.22
D	0.75	0.85	0.80
D2	0.15	0.35	0.25
E	0.75	0.85	0.80
E2	0.15	0.35	0.25
e	-	-	0.48
k	0.20	-	-
L	0.17	0.27	0.22
L1	0.02	0.12	0.07
z	-	-	0.05
All Dimensions in mm			

Suggested Pad Layout

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

X2-DFN0808-4

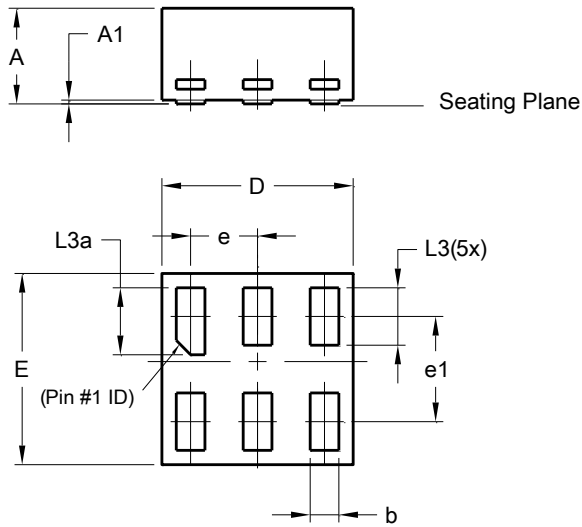


Dimensions	Value
C	0.480
X	0.320
X1	0.300
X2	0.106
X3	0.800
Y	0.320
Y1	0.300
Y2	0.106
Y3	0.900

Package Outline Dimensions

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

X1-DFN1010-6 (Type B)

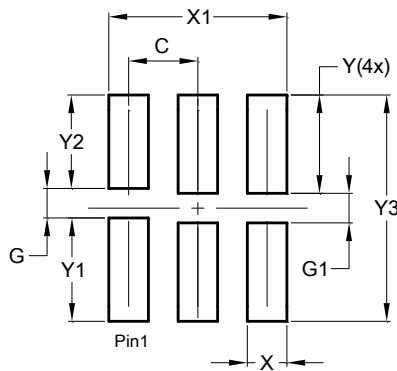


X1-DFN1010-6 (Type B)			
Dim	Min	Max	Typ
A	-	0.50	0.39
A1	-	0.04	-
b	0.12	0.20	0.15
D	0.95	1.050	1.00
E	0.95	1.050	1.00
e	0.35 BSC		
e1	0.55 BSC		
L3	0.27	0.30	0.30
L3a	0.32	0.40	0.35
All Dimensions in mm			

Suggested Pad Layout

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

X1-DFN1010-6 (Type B)

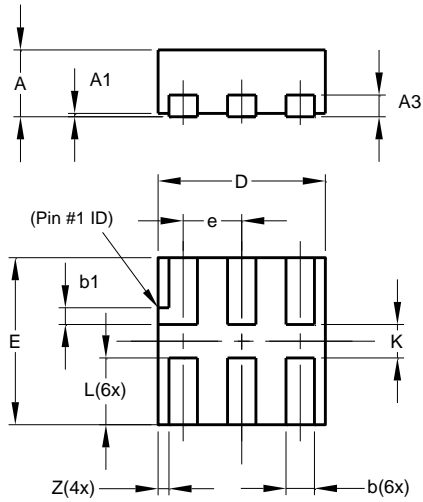


Dimensions	Value (in mm)
C	0.350
G	0.150
G1	0.150
X	0.200
X1	0.900
Y	0.500
Y1	0.525
Y2	0.475
Y3	1.150

Package Outline Dimensions

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

X2-DFN1010-6

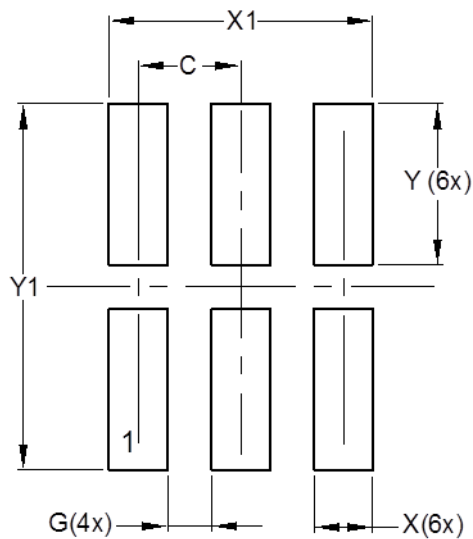


X2-DFN1010-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.14	0.20	0.17
b1	0.05	0.15	0.10
D	0.95	1.05	1.00
E	0.95	1.05	1.00
e	—	—	0.35
L	0.35	0.45	0.40
K	0.15	—	—
Z	—	—	0.065
All Dimensions in mm			

Suggested Pad Layout

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

X2-DFN1010-6

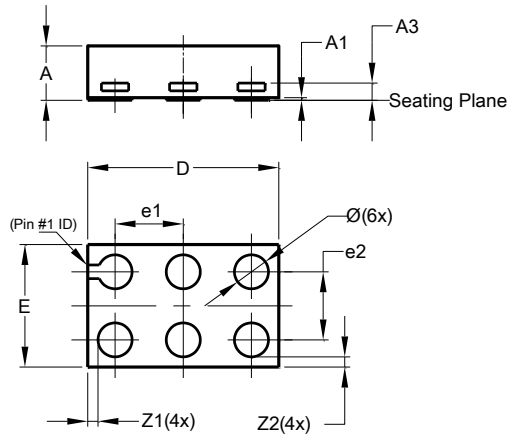


Dimensions	Value (in mm)
C	0.350
G	0.150
X	0.200
X1	0.900
Y	0.550
Y1	1.250

Package Outline Dimensions

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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE

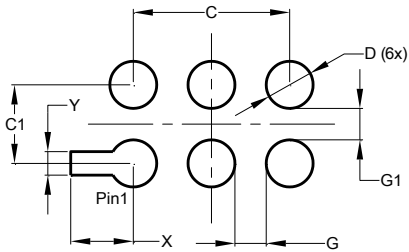


X2-DFN1409-6			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0	0.05	0.02
A3	-	-	0.13
Ø	0.20	0.30	0.25
D	1.35	1.45	1.40
E	0.85	0.95	0.90
e1	-	-	0.50
e2	-	-	0.50
Z1	-	-	0.075
Z2	-	-	0.075
All Dimensions in mm			

Suggested Pad Layout

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

X2-DFN1409-6 CHIP SCALE ALTERNATIVE

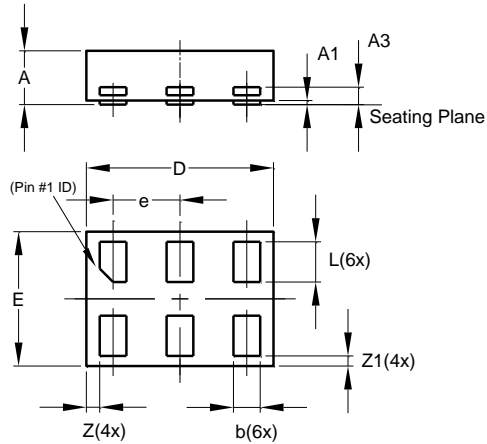


Dimensions	Value (in mm)
C	1.000
C1	0.500
D	0.300
G	0.200
G1	0.200
X	0.400
Y	0.150

Package Outline Dimensions

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

X2-DFN1410-6

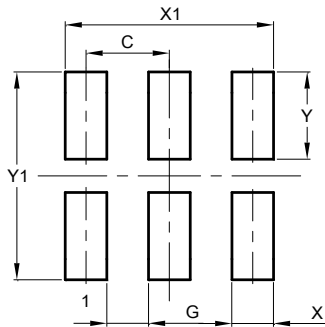


X2-DFN1410-6			
Dim	Min	Max	Typ
A	—	0.40	0.39
A1	0.00	0.05	0.02
A3	—	—	0.13
b	0.15	0.25	0.20
D	1.35	1.45	1.40
E	0.95	1.05	1.00
e	—	—	0.50
L	0.25	0.35	0.30
Z	—	—	0.10
Z1	0.045	0.105	0.075
All Dimensions in mm			

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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