

### 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:

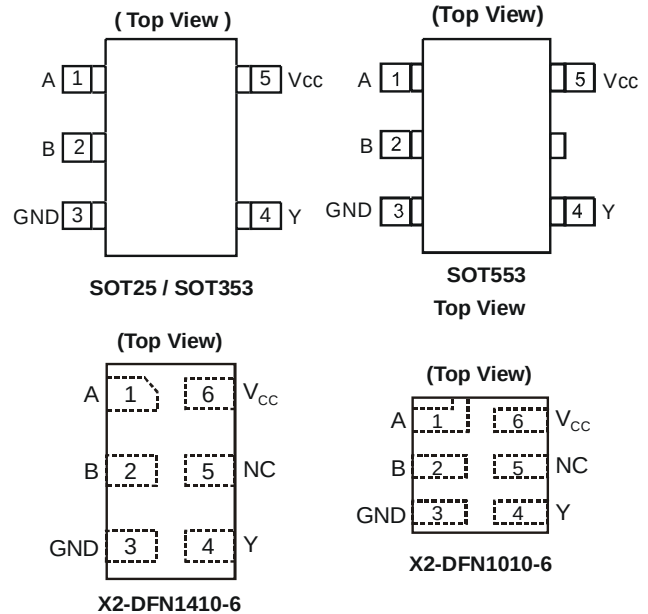
$$Y = \overline{A + B} \text{ or } Y = \overline{A} \cdot \overline{B}$$

### Features

- Wide Supply Voltage Range from 1.65 to 5.5V
- $\pm 24\text{mA}$  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
  - o Exceeds 200-V Machine Model (A115-A)
  - o Exceeds 2000-V Human Body Model (A114-A)
  - o Exceeds 1000-V Charged Device Model (C101C)
- Latch-Up Exceeds 100mA per JESD 78, Class II
- Range of Package Options
- Direct Interface with TTL Levels
- All packages Assembled with "Green" Molding Compound (no Br, Sb)
- Lead Free Finish/ RoHS Compliant (Note 1)

Notes: 1. EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant. No purposely added lead. Halogen and Antimony free. Please visit our website at [http://www.diodes.com/products/lead\\_free.html](http://www.diodes.com/products/lead_free.html)

### Pin Assignments



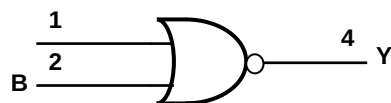
### Applications

- Voltage Level Shifting
- General Purpose Logic
- Power Down Signal Isolation
- Wide array of products such as:
  - o PCs, networking, notebooks, netbooks, PDAs
  - o Tablet Computers, E-readers
  - o Computer peripherals, hard drives, CD/DVD ROM
  - o TV, DVD, DVR, set top box
  - o Cell Phones, Personal Navigation / GPS
  - o MP3 players, Cameras, Video Recorders

### Pin Descriptions

| Pin Name        | Description    |
|-----------------|----------------|
| A               | Data Input     |
| B               | Data Input     |
| GND             | Ground         |
| Y               | Data Output    |
| V <sub>CC</sub> | Supply Voltage |
| NC              | No Connection  |

### Logic Diagram



### Function Table

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

### Absolute Maximum Ratings (Note 2)

| 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 <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                                                  | -50                          | mA   |
| I <sub>O</sub>                     | Continuous output current                                             | ±50                          | mA   |
| I <sub>CC</sub> , I <sub>GND</sub> | Continuous current through V <sub>CC</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: 2. 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.

### Recommended Operating Conditions (Note 3)

| 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 3.6 V               |                        | 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                    |      |
|                 |                                    |                                             |                        | -24                    |      |
|                 |                                    | 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                     |      |
|                 |                                    |                                             |                        | 24                     |      |
|                 |                                    | 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   |

Notes: 3. Unused inputs should be held at  $V_{CC}$  or Ground.

### 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            |           |         |
|                 |                            | $I_{OH} = -16mA$                                             | 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      |         |
|                 |                            | $I_{OL} = 16mA$                                              | 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     |                | $\pm 0.1$ | $\pm 5$  |                | $\pm 100$ | $\mu A$ |
| $I_{OFF}$       | Power Down Leakage Current | $V_I$ or $V_O = 5.5V$                                        | 0V            |                |           | $\pm 10$ |                | $\pm 200$ | $\mu A$ |
| $I_{CC}$        | Supply Current             | $V_I = 5.5V$ or GND<br>$I_O = 0$                             | 5.5V          |                | 0.1       | 10       |                | 200       | $\mu A$ |
| $\Delta I_{CC}$ | Additional Supply Current  | One input at $V_{CC} - 0.6V$ Other inputs at $V_{CC}$ or GND | 3V to 5.5V    |                |           | 500      |                | 5000      | $\mu A$ |
| $C_i$           | Input Capacitance          | $V_i = V_{CC} -$ or GND                                      | 3.3V          |                | 5         |          |                |           | pF      |

### 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         |
|---------------|-------------------------------------------|-----------------|----------|-----|------|-----|--------------|
| $\theta_{JA}$ | Thermal Resistance<br>Junction-to-Ambient | SOT25           | (Note 4) |     | 204  |     | $^\circ C/W$ |
|               |                                           | SOT353          |          |     | 371  |     |              |
|               |                                           | SOT553          |          |     | 231  |     |              |
|               |                                           | X2-DFN1010-6    |          |     | 445  |     |              |
|               |                                           | X2-DFN1410-6    |          |     | 460  |     |              |
| $\theta_{JC}$ | Thermal Resistance<br>Junction-to-Case    | SOT25           | (Note 4) |     | 52   |     | $^\circ C/W$ |
|               |                                           | SOT353          |          |     | 143  |     |              |
|               |                                           | SOT553          |          |     | 105  |     |              |
|               |                                           | X2-DFN1010-6    |          |     | 250  |     |              |
|               |                                           | X2-DFN1410-6    |          |     | 265  |     |              |

Notes: 4. Test condition for SOT25, SOT353, SOT553, X2-DFN1410-6 and X2-DFN1010-6: 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.

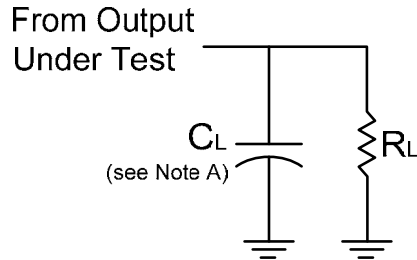
| Parameter | From<br>Input | To<br>Output | $V_{CC}$         | $T_A = -40^\circ C$ to $85^\circ C$ |      |     | $T_A = -40^\circ C$ to $125^\circ C$ |      | Unit |
|-----------|---------------|--------------|------------------|-------------------------------------|------|-----|--------------------------------------|------|------|
|           |               |              |                  | 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

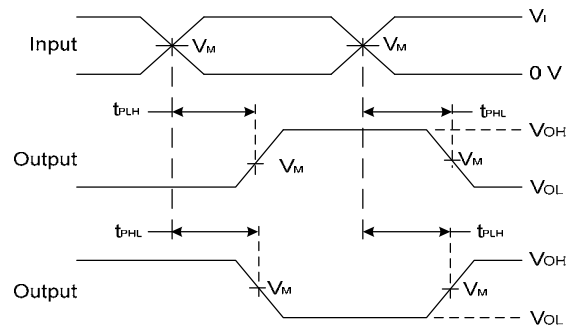
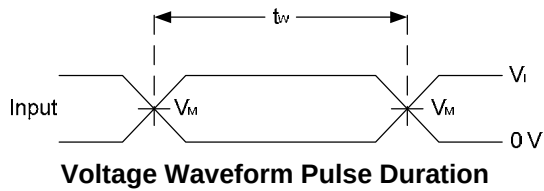
$T_A = 25^\circ C$

| Parameter |                                  | Test<br>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<br>capacitance | f = 10 MHz         | 14              | 14              | 14              | 14            | pF   |

## Parameter Measurement Information



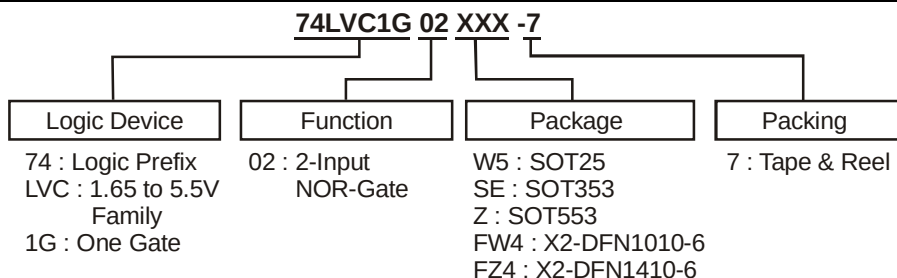
| $V_{CC}$         | Inputs   |              | $V_M$      | $C_L$ | $R_L$        |
|------------------|----------|--------------|------------|-------|--------------|
|                  | $V_I$    | $t_r/t_f$    |            |       |              |
| $1.8V \pm 0.15V$ | $V_{CC}$ | $\leq 2ns$   | $V_{CC}/2$ | 30 pF | 1 K $\Omega$ |
| $2.5V \pm 0.2V$  | $V_{CC}$ | $\leq 2ns$   | $V_{CC}/2$ | 30 pF | 500 $\Omega$ |
| 2.7V             | $V_{CC}$ | $\leq 2.5ns$ | 1.5V       | 50 pF | 500 $\Omega$ |
| $3.3V \pm 0.3V$  | 3.0V     | $\leq 2.5ns$ | 1.5V       | 50 pF | 500 $\Omega$ |
| $5.0V \pm 0.5V$  | $V_{CC}$ | $\leq 2.5ns$ | $V_{CC}/2$ | 50 pF | 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  $\leq 10$  MHz.
  - C. Inputs are measured separately one transition per measurement.
  - D.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{PD}$ .

### Ordering Information

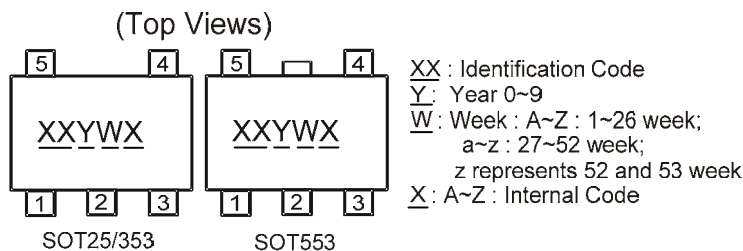


| Device          | Package Code | Packaging (Note 6) | 7" Tape and Reel |                    |
|-----------------|--------------|--------------------|------------------|--------------------|
|                 |              |                    | Quantity         | Part Number Suffix |
| 74LVC1G02W5-7   | W5           | SOT25              | 3000/Tape & Reel | -7                 |
| 74LVC1G02SE-7   | SE           | SOT353             | 3000/Tape & Reel | -7                 |
| 74LVC1G02Z-7    | Z            | SOT553             | 4000/Tape & Reel | -7                 |
| 74LVC1G02FW4-7  | FW4          | X2-DFN1010-6       | 5000/Tape & Reel | -7                 |
| 74LVC1G02 FZ4-7 | FZ4          | X2-DFN1410-6       | 5000/Tape & Reel | -7                 |

Notes: 5. Pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.  
 6. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>

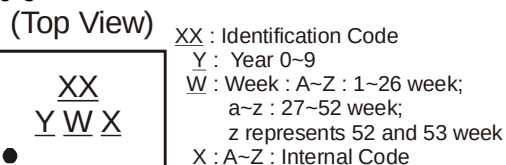
### Marking Information

#### (1) SOT25, SOT353 and SOT553



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

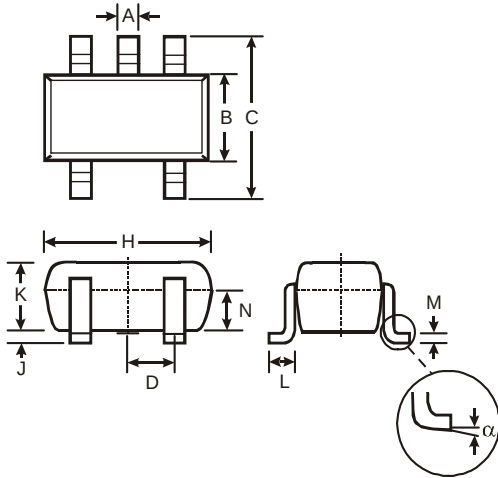
#### (2) X2-DFN1010-6 and X2-DFN1410-6



| Part Number  | Package      | Identification Code |
|--------------|--------------|---------------------|
| 74LVC1G02FW4 | X2-DFN1010-6 | UT                  |
| 74LVC1G02FZ4 | X2-DFN1410-6 | UT                  |

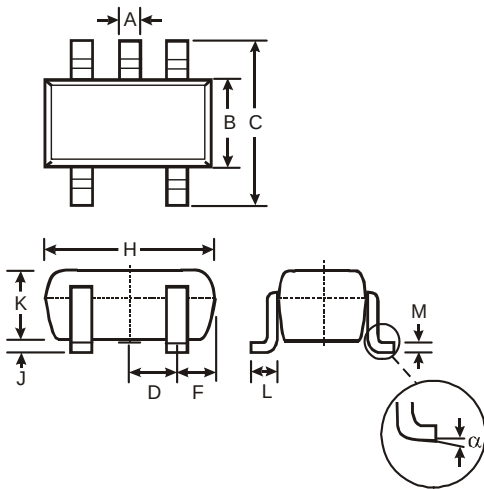
**Package Outline Dimensions (All Dimensions in mm)**

**(1) Package Type: SOT25**



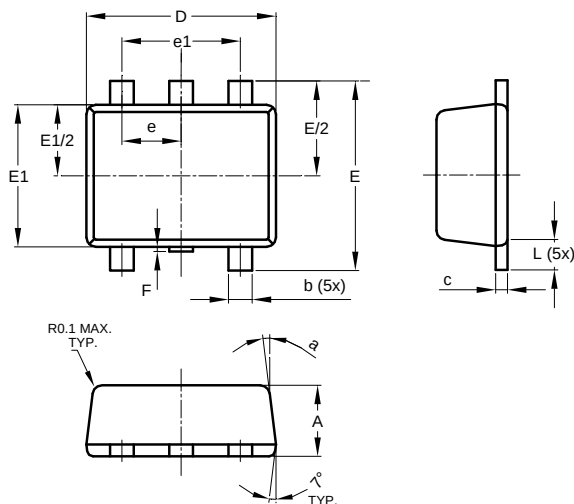
| SOT25                |       |      |      |
|----------------------|-------|------|------|
| Dim                  | Min   | Max  | Typ  |
| A                    | 0.35  | 0.50 | 0.38 |
| B                    | 1.50  | 1.70 | 1.60 |
| C                    | 2.70  | 3.00 | 2.80 |
| D                    | —     | —    | 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 |
| $\alpha$             | 0°    | 8°   | —    |
| All Dimensions in mm |       |      |      |

**(2) Package Type: SOT353**



| SOT353               |          |      |
|----------------------|----------|------|
| Dim                  | Min      | Max  |
| A                    | 0.10     | 0.30 |
| B                    | 1.15     | 1.35 |
| C                    | 2.00     | 2.20 |
| D                    | 0.65 Typ |      |
| F                    | 0.40     | 0.45 |
| H                    | 1.80     | 2.20 |
| J                    | 0        | 0.10 |
| K                    | 0.90     | 1.00 |
| L                    | 0.25     | 0.40 |
| M                    | 0.10     | 0.22 |
| $\alpha$             | 0°       | 8°   |
| All Dimensions in mm |          |      |

**(3) Package Type: SOT553**

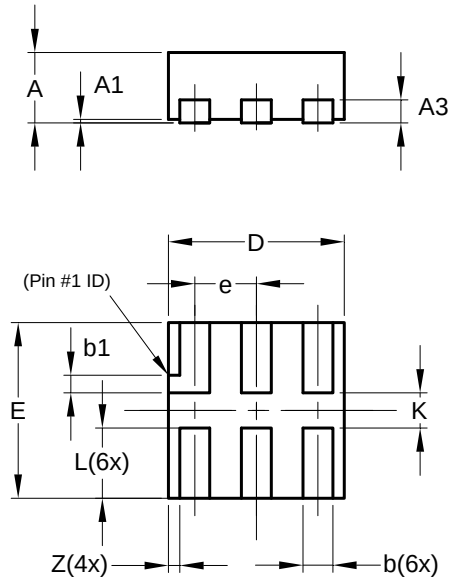


| SOT553               |          |      |      |
|----------------------|----------|------|------|
| Dim                  | Min      | Max  | Typ  |
| A                    | 0.55     | 0.62 | 0.60 |
| b                    | 0.15     | 0.30 | 0.20 |
| c                    | 0.10     | 0.18 | 0.15 |
| 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 |          |      |      |



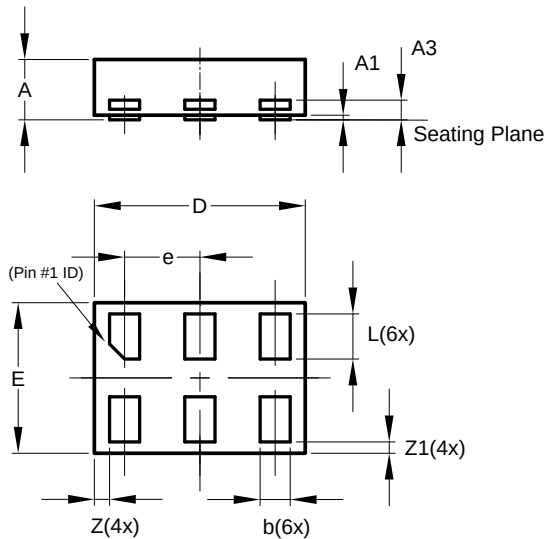
**Package Outline Dimensions (cont.)**

**(4) 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 |      |      |       |

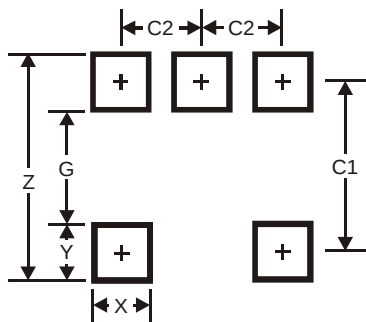
**(5) Package Type: X2-DFN1410-6**



| 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 |       |       |       |

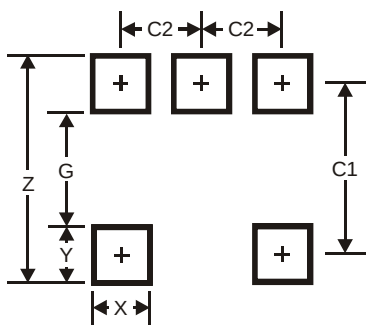
## Suggested Pad Layout

### (1) Package Type: SOT25



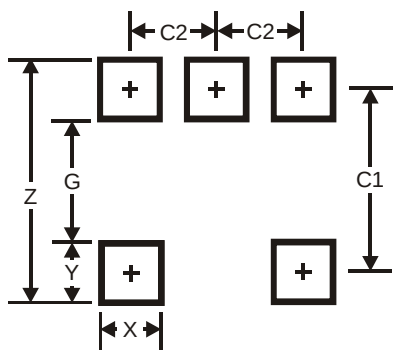
| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 3.20          |
| G          | 1.60          |
| X          | 0.55          |
| Y          | 0.80          |
| C1         | 2.40          |
| C2         | 0.95          |

### (2) Package Type: SOT353



| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 2.5           |
| G          | 1.3           |
| X          | 0.42          |
| Y          | 0.6           |
| C1         | 1.9           |
| C2         | 0.65          |

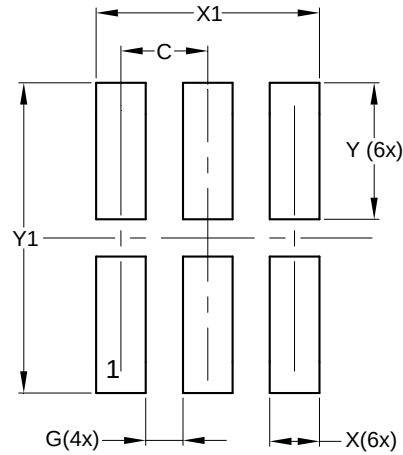
### (3) Package Type: SOT553



| Dimensions | Value (in mm) |
|------------|---------------|
| Z          | 2.2           |
| G          | 1.2           |
| X          | 0.375         |
| Y          | 0.5           |
| C1         | 1.7           |
| C2         | 0.5           |

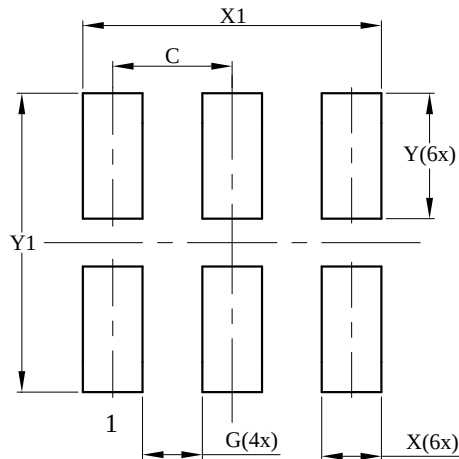
**Suggested Pad Layout (cont.)**

**(4) Package Type X2-DFN1010-6**



| Dimensions | Value<br>(in mm) |
|------------|------------------|
| C          | 0.350            |
| G          | 0.150            |
| X          | 0.200            |
| X1         | 0.900            |
| Y          | 0.550            |
| Y1         | 1.250            |

**(5) Package Type: X2-DFN1410-6**



| Dimensions | Value<br>(in mm) |
|------------|------------------|
| C          | 0.500            |
| G          | 0.250            |
| X          | 0.250            |
| X1         | 1.250            |
| Y          | 0.525            |
| Y1         | 1.250            |

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