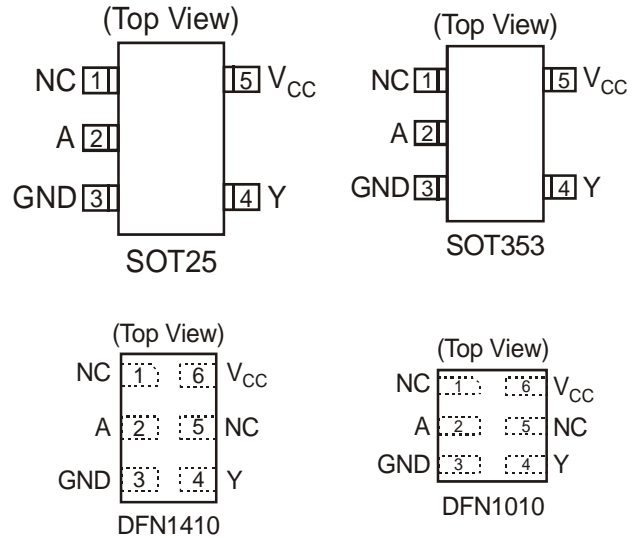


Description

The 74LVC1G14 is a single 1-input Schmitt-trigger inverter 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 IOFF. The IOFF circuitry disables the output preventing damaging current backflow when the device is powered down. The gate performs the positive Boolean function:

$$Y = \overline{A}$$

Pin Assignments



Features

- Wide Supply Voltage Range from 1.65V to 5.5V
- ± 24mA Output Drive at 3.3V
- CMOS low power consumption
- IOFF Supports Partial-Power-Down Mode Operation
- Inputs accept up to 5.5V
- ESD Protection Exceeds JESD 22
 - 200-V Machine Model (A115-A)
 - 2000-V Human Body Model (A114-A)
- Latch-Up Exceeds 100mA per JESD 78, Class II
- Range of Package Options
- SOT25, SOT353, DFN1410, and DFN1010: Available in “Green” Molding Compound (no Br, Sb)
- Lead Free Finish/ RoHS Compliant (Note 1)

Applications

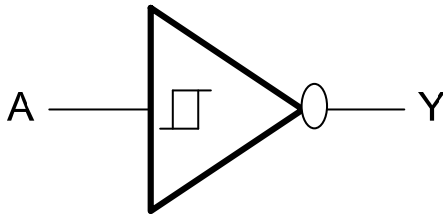
- Voltage Level Shifting
- General Purpose Logic
- Power Down Signal Isolation
- Wide array of products such as:
 - PCs, networking, notebooks, netbooks, PDAs
 - Computer peripherals, hard drives, CD/DVD ROM
 - TV, DVD, DVR, set top box
 - Cell Phones, Personal Navigation / GPS
 - MP3 players ,Cameras,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

Notes: 1. EU Directive 2002/95/EC (RoHS). All applicable RoHS exemptions applied. Please visit our website at http://www.diodes.com/products/lead_free.html.

Pin Descriptions

| Pin Name | Description |
|-----------------|----------------|
| A | Data Input |
| GND | Ground |
| Y | Data Output |
| V _{CC} | Supply Voltage |

Logic Diagram



Function Table

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

Absolute Maximum Ratings (Note 2)

| Symbol | Description | Rating | Unit |
|------------------|---|------------------------------|------|
| ESD HBM | Human Body Model ESD Protection | 2 | 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 | -0.3 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 |
| | Continuous current through V _{DD} or GND | ±100 | mA |
| T _J | Operating Junction Temperature | -40 to 150 | °C |
| T _{STG} | 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 _{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} = 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} = 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 | |

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

Electrical Characteristics $T_A = -40^\circ\text{C}$ to 85°C (All typical values are at $V_{CC} = 3.3\text{V}$, $T_A = 25^\circ\text{C}$)

| 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 | $I_{OH} = -100\mu\text{A}$ | 1.65V to 5.5V | $V_{CC} - 0.1$ | | | V |
| | | $I_{OH} = -4\text{mA}$ | 1.65V | 1.2 | | | |
| | | $I_{OH} = -8\text{mA}$ | 2.3V | 1.9 | | | |
| | | $I_{OH} = -16\text{mA}$ | 3V | 2.4 | | | |
| | | $I_{OH} = -24\text{mA}$ | | 2.3 | | | |
| | | $I_{OH} = -32\text{mA}$ | 4.5V | 3.8 | | | |
| V_{OL} | High-level Input Voltage | $I_{OL} = 100\mu\text{A}$ | 1.65V to 5.5V | | | 0.1 | V |
| | | $I_{OL} = 4\text{mA}$ | 1.65V | | | 0.45 | |
| | | $I_{OL} = 8\text{mA}$ | 2.3V | | | 0.3 | |
| | | $I_{OL} = 16\text{mA}$ | 3V | | | 0.4 | |
| | | $I_{OL} = 24\text{mA}$ | | | | 0.55 | |
| | | $I_{OL} = 32\text{mA}$ | 4.5 | | | 0.55 | |
| I_I | Input Current | $V_I = 5.5\text{V}$ or GND | 0 to 5.5V | | | ± 5 | μA |
| I_{OFF} | Power Down Leakage Current | V_I or $V_O = 5.5\text{V}$ | 0 | | | ± 10 | μA |
| I_{CC} | Supply Current | $V_I = 5.5\text{V}$ of GND $I_O = 0$ | 1.65V to 5.5V | | | 10 | μA |
| ΔI_{CC} | Additional Supply Current | Input at $V_{CC} - 0.6\text{V}$ | 3V to 5.5V | | | 500 | μA |

Electrical Characteristics $T_A = -40^{\circ}\text{C}$ to 125°C (All typical values are at $V_{CC} = 3.3\text{V}$, $T_A = 25^{\circ}\text{C}$)

| 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 | $I_{OH} = -100\mu\text{A}$ | 1.65V to 5.5V | $V_{CC} - 0.1$ | | | V |
| | | $I_{OH} = -4\text{mA}$ | 1.65V | 0.95 | | | |
| | | $I_{OH} = -8\text{mA}$ | 2.3V | 1.7 | | | |
| | | $I_{OH} = -16\text{mA}$ | 3V | 1.9 | | | |
| | | $I_{OH} = -24\text{mA}$ | | 2.0 | | | |
| | | $I_{OH} = -32\text{mA}$ | 4.5V | 3.4 | | | |
| V_{OL} | High-level Input Voltage | $I_{OL} = 100\mu\text{A}$ | 1.65V to 5.5V | | | 0.1 | V |
| | | $I_{OL} = 4\text{mA}$ | 1.65V | | | 0.7 | |
| | | $I_{OL} = 8\text{mA}$ | 2.3V | | | 0.45 | |
| | | $I_{OL} = 16\text{mA}$ | 3V | | | 0.6 | |
| | | $I_{OL} = 24\text{mA}$ | | | | 0.8 | |
| | | $I_{OL} = 32\text{mA}$ | 4.5V | | | 0.8 | |
| I_I | Input Current | $V_I = 5.5\text{V}$ or GND | 0 to 5.5V | | | ± 100 | μA |
| I_{OFF} | Power Down Leakage Current | V_I or $V_O = 5.5\text{V}$ | 0 | | | ± 200 | μA |
| I_{CC} | Supply Current | $V_I = 5.5\text{V}$ of GND $I_O = 0$ | 1.65V to 5.5V | | | 200 | μA |
| ΔI_{CC} | Additional Supply Current | Input at $V_{CC} - 0.6\text{V}$ | 3V to 5.5V | | | 5000 | μA |

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 |
|---------------|---|--------------------------------|----------|-----|------|-----|--------------|
| C_I | Input Capacitance | $V_I = V_{CC} - \text{or GND}$ | 3.3 | | 3.5 | | pF |
| θ_{JA} | Thermal Resistance Junction-to-Ambient | SOT25 | (Note 4) | | 204 | | $^\circ C/W$ |
| | | SOT353 | | | 371 | | |
| | | DFN1410 | | | 430 | | |
| | | DFN1010 | | | 510 | | |
| θ_{JC} | Thermal Resistance Junction-to-Case | SOT25 | (Note 4) | | 52 | | $^\circ C/W$ |
| | | SOT353 | | | 143 | | |
| | | DFN1410 | | | 190 | | |
| | | DFN1010 | | | 250 | | |

Notes: 4. Test condition for SOT26, SOT363, DFN1410 and DFN1010 : Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

Switching Characteristics

$T_A = -40^\circ C$ to $85^\circ C$, $C_L = 15pF$ as noted (see Figure 1)

| Parameter | From (Input) | TO (OUTPUT) | $V_{CC} = 1.8V \pm 0.15V$ | | $V_{CC} = 2.5V \pm 0.2V$ | | $V_{CC} = 3.3V \pm 0.3V$ | | $V_{CC} = 5V \pm 0.5V$ | | 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 |

$T_A = -40^\circ C$ to $85^\circ C$, $C_L = 30$ or $50pF$ as noted (see Figure 2)

| Parameter | From (Input) | TO (OUTPUT) | $V_{CC} = 1.8V \pm 0.15V$ | | $V_{CC} = 2.5V \pm 0.2V$ | | $V_{CC} = 3.3V \pm 0.3V$ | | $V_{CC} = 5V \pm 0.5V$ | | 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 |

$T_A = -40^\circ C$ to $125^\circ C$, $C_L = 15pF$ as noted (see Figure 1)

| Parameter | From (Input) | TO (OUTPUT) | $V_{CC} = 1.8V \pm 0.15V$ | | $V_{CC} = 2.5V \pm 0.2V$ | | $V_{CC} = 3.3V \pm 0.3V$ | | $V_{CC} = 5V \pm 0.5V$ | | 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 |

$T_A = -40^\circ C$ to $125^\circ C$, $C_L = 30$ or $50pF$ as noted (see Figure 2)

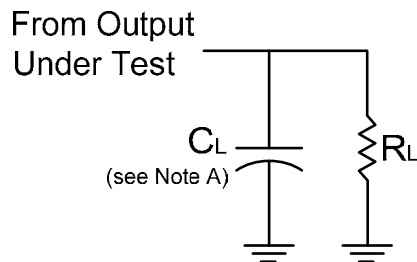
| Parameter | From (Input) | TO (OUTPUT) | $V_{CC} = 1.8V \pm 0.15V$ | | $V_{CC} = 2.5V \pm 0.2V$ | | $V_{CC} = 3.3V \pm 0.3V$ | | $V_{CC} = 5V \pm 0.5V$ | | Unit |
|-----------|-----------------|----------------|---------------------------|------|--------------------------|-----|--------------------------|-----|------------------------|-----|------|
| | | | 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

$T_A = 25\text{ }^\circ\text{C}$

| Parameter | Test Conditions | $V_{CC} = 1.8\text{V}$ | $V_{CC} = 2.5\text{V}$ | $V_{CC} = 3.3\text{V}$ | $V_{CC} = 5\text{V}$ | Unit | |
|-----------|-------------------------------|------------------------|------------------------|------------------------|----------------------|------|----|
| | | Typ. | Typ. | Typ. | Typ. | | |
| C_{pd} | Power dissipation capacitance | f = 10 MHz | 20 | 21 | 22 | 25 | pF |

Parameter Measurement Information



| V_{CC} | Inputs | | V_M | C_L | R_L |
|--------------------------------|----------|---------------------|------------|-------|-------------|
| | V_I | t_r/t_f | | | |
| $1.8\text{V} \pm 0.15\text{V}$ | V_{CC} | $\leq 2\text{ns}$ | $V_{CC}/2$ | 15pF | 1M Ω |
| $2.5\text{V} \pm 0.2\text{V}$ | V_{CC} | $\leq 2\text{ns}$ | $V_{CC}/2$ | 15pF | 1M Ω |
| $3.3\text{V} \pm 0.3\text{V}$ | 3V | $\leq 2.5\text{ns}$ | 1.5V | 15pF | 1M Ω |
| $5\text{V} \pm 0.5\text{V}$ | V_{CC} | $\leq 2.5\text{ns}$ | $V_{CC}/2$ | 15pF | 1M Ω |

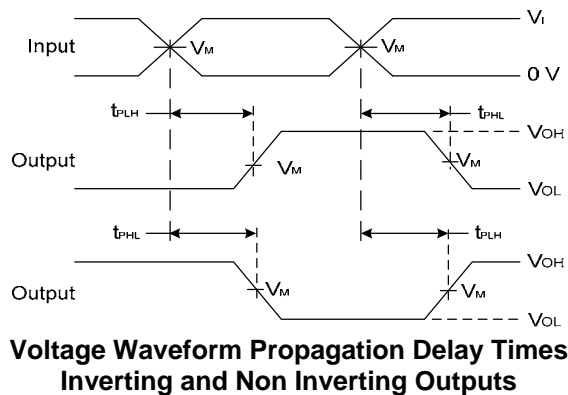
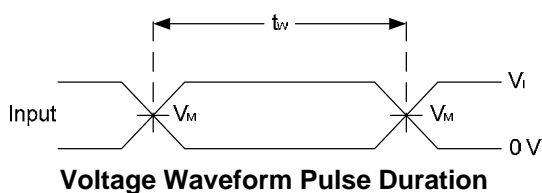
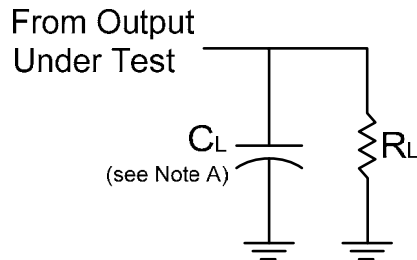


Figure 1. Load Circuit and Voltage Waveforms

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

Parameter Measurement Information (cont.)



| V_{CC} | Inputs | | V_M | C_L | R_L |
|------------------|----------|--------------|------------|-------|--------------|
| | V_I | t_r/t_f | | | |
| $1.8V \pm 0.15V$ | V_{CC} | $\leq 2ns$ | $V_{CC}/2$ | 30pF | 1K Ω |
| $2.5V \pm 0.2V$ | V_{CC} | $\leq 2ns$ | $V_{CC}/2$ | 30pF | 500 Ω |
| $3.3V \pm 0.3V$ | 3V | $\leq 2.5ns$ | 1.5V | 50pF | 500 Ω |
| $5V \pm 0.5V$ | V_{CC} | $\leq 2.5ns$ | $V_{CC}/2$ | 50pF | 500 Ω |

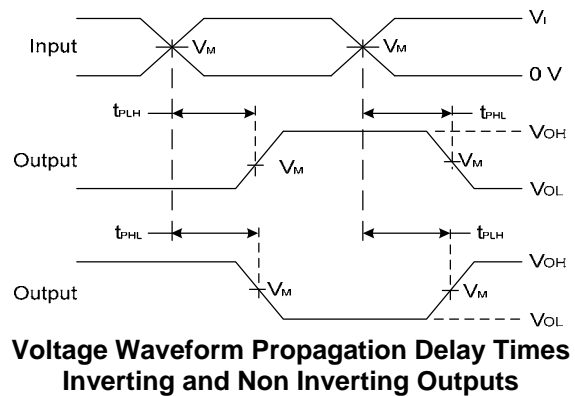
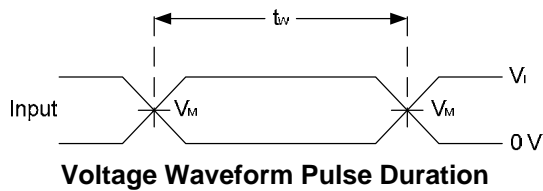
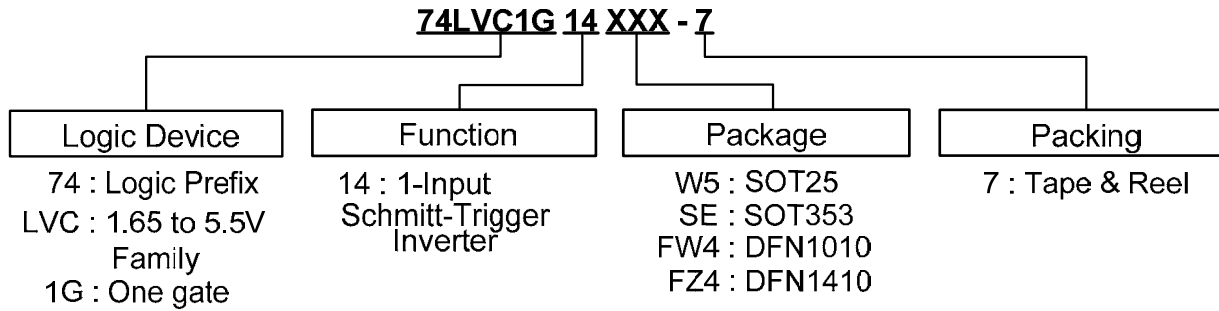






Figure 2. Load Circuit and Voltage Waveforms

- Notes:
- A. Includes test lead and test apparatus capacitance.
 - B. All pulses are supplied at pulse repetition rate ≤ 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 7) | 7" Tape and Reel | |
|--|--------------|--------------------|------------------|--------------------|
| | | | Quantity | Part Number Suffix |
|  74LVC1G14W5-7 | W5 | SOT25 | 3000/Tape & Reel | -7 |
|  74LVC1G14SE-7 | SE | SOT353 | 3000/Tape & Reel | -7 |
|  74LVC1G14FW4-7 | FW4 | DFN1010 | 5000/Tape & Reel | -7 |
|  74LVC1G14FZ4-7 | FZ4 | DFN1410 | 5000/Tape & Reel | -7 |

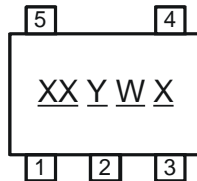
Notes: 5. Pad layout as shown on Diodes Inc. suggested pad layout document AP02001, which can be found on our website at <http://www.diodes.com/datasheets/ap02001.pdf>.
6. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>

NEW PRODUCT

Marking Information

(1) SOT25, SOT353

(Top View)

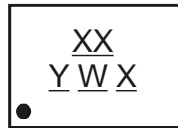


XX : Identification Code
 Y : Year 0~9
 W : Week : A~Z : 1~26 week;
 a~z : 27~52 week;
 z represents 52 and 53 week
 X : A~Z : Internal Code

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

(2) DFN1010,DFN1410

(Top View)

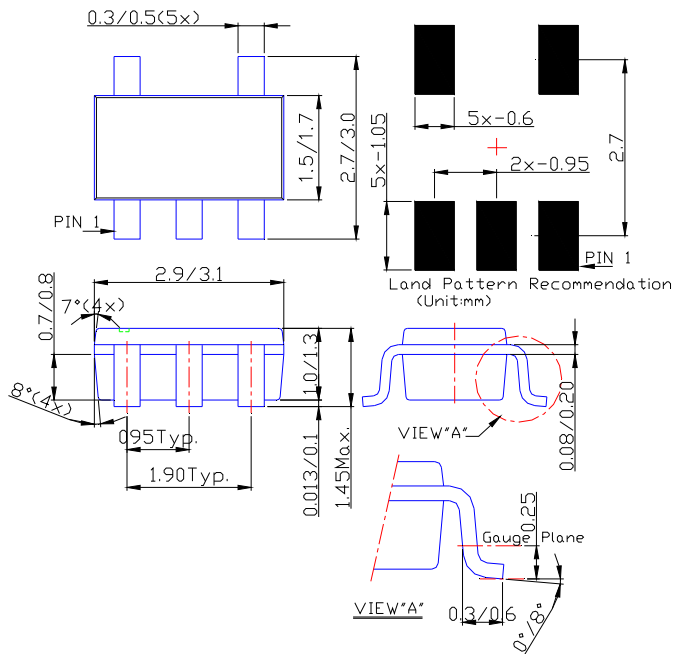


XX : Identification Code
 Y : Year 0~9
 W : Week : A~Z : 1~26 week;
 a~z : 27~52 week;
 z represents 52 and 53 week
 X : A~Z : Internal Code

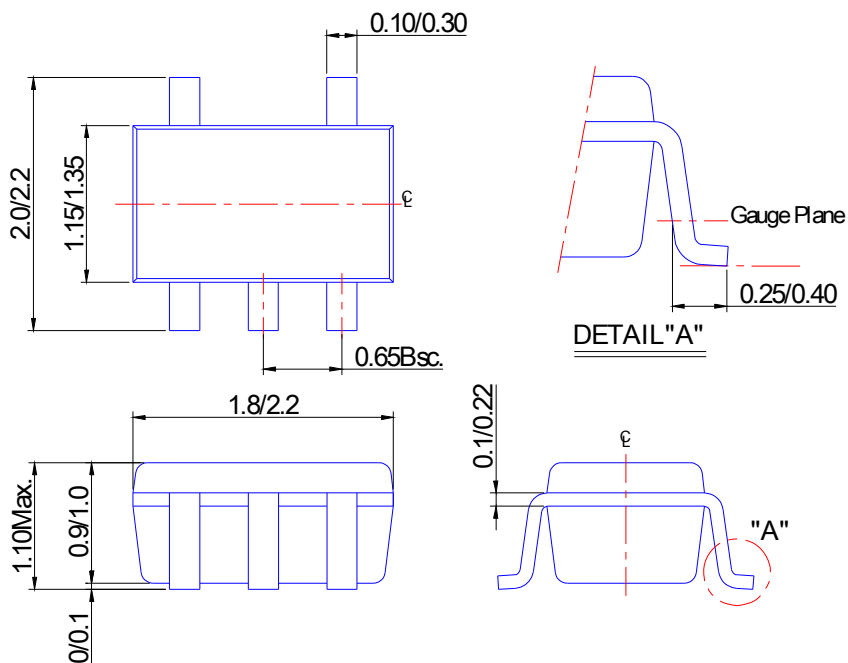
| Part Number | Package | Identification Code |
|----------------|---------|---------------------|
| 74LVC1G14FW4-7 | DFN1010 | UP |
| 74LVC1G14FZ4-7 | DFN1410 | UP |

Package Outline Dimensions (All Dimensions in mm)

(1) Package Type: SOT25

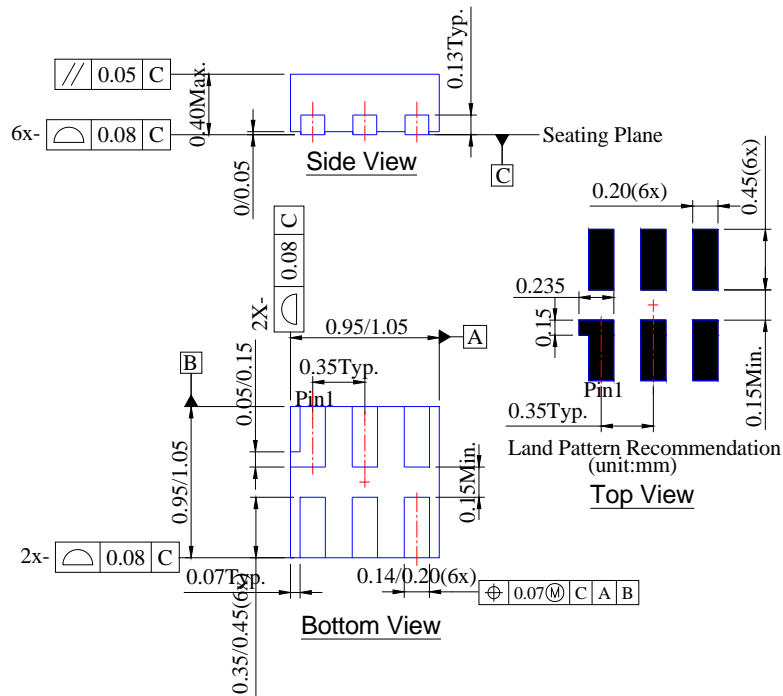


(2) Package Type: SOT353

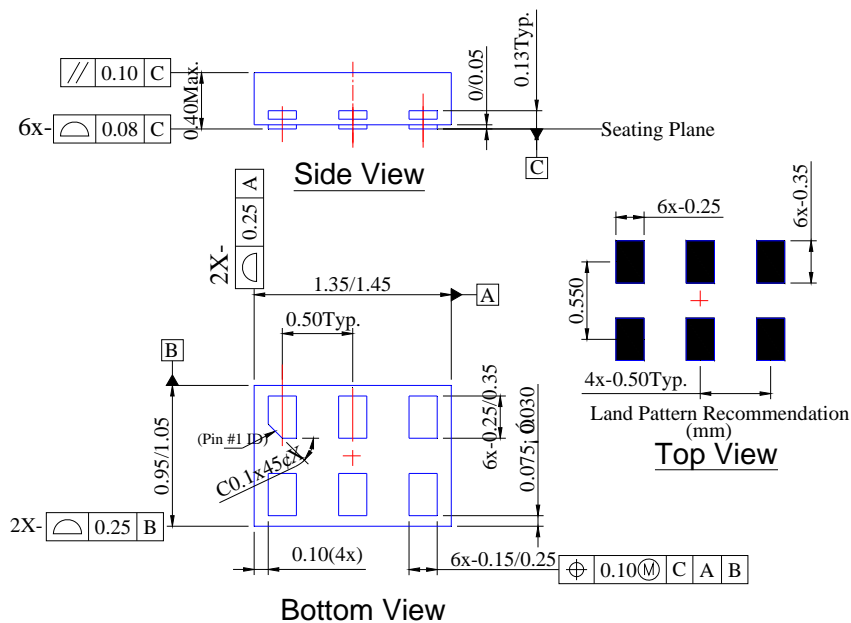


Package Outline Dimensions (cont.) (All Dimensions in mm)

(3) Package Type: DFN1010



(4) Package Type DFN1410



NEW PRODUCT

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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