

# NLX2G06

## Dual Inverter, Open Drain

The NLX2G06 MiniGate™ is an advanced high-speed CMOS dual inverter with open drain output in ultra-small footprint.

The NLX2G06 input and output structures provide protection when voltages up to 7.0 V are applied, regardless of the supply voltage.

### Features

- High Speed:  $t_{PD} = 2.4 \text{ ns}$  (Typ) @  $V_{CC} = 5.0 \text{ V}$
- Low Power Dissipation:  $I_{CC} = 1 \mu\text{A}$  (Max) at  $T_A = 25^\circ\text{C}$
- Power Down Protection Provided on inputs
- Balanced Propagation Delays
- Overvoltage Tolerant (OVT) Input and Output Pins
- Ultra-Small Packages
- These are Pb-Free Devices

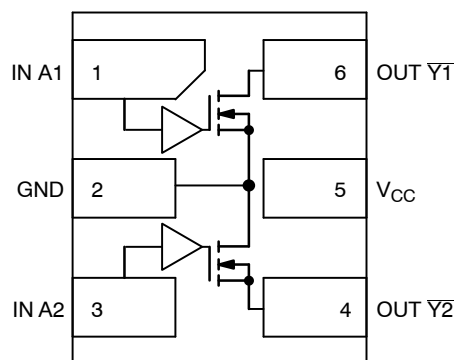


Figure 1. Pinout (Top View)

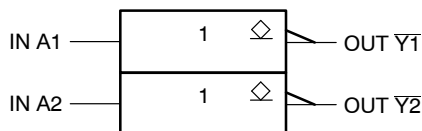


Figure 2. Logic Symbol

### PIN ASSIGNMENT

|   |                |
|---|----------------|
| 1 | IN A1          |
| 2 | GND            |
| 3 | IN A2          |
| 4 | OUT $\bar{Y}2$ |
| 5 | $V_{CC}$       |
| 6 | OUT $\bar{Y}1$ |

### FUNCTION TABLE

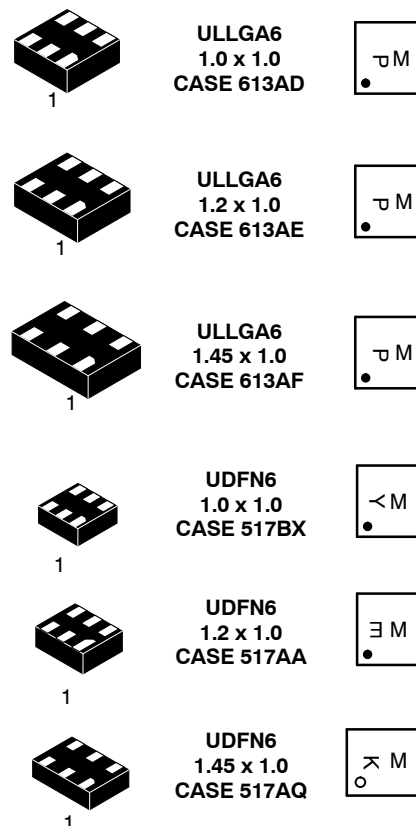
| A | $\bar{Y}$ |
|---|-----------|
| L | Z         |
| H | L         |



ON Semiconductor®

<http://onsemi.com>

### MARKING DIAGRAMS



P = Device Marking  
M = Date Code

### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 5 of this data sheet.

# NLX2G06

## MAXIMUM RATINGS

| Symbol        | Parameter                                                           | Value                | Unit |
|---------------|---------------------------------------------------------------------|----------------------|------|
| $V_{CC}$      | DC Supply Voltage                                                   | -0.5 to +7.0         | V    |
| $V_{IN}$      | DC Input Voltage                                                    | -0.5 to +7.0         | V    |
| $V_{OUT}$     | DC Output Voltage                                                   | -0.5 to +7.0         | V    |
| $I_{IK}$      | DC Input Diode Current<br>$V_{IN} < GND$                            | -50                  | mA   |
| $I_{OK}$      | DC Output Diode Current<br>$V_{OUT} < GND$                          | -50                  | mA   |
| $I_O$         | DC Output Source/Sink Current                                       | $\pm 50$             | mA   |
| $I_{CC}$      | DC Supply Current Per Supply Pin                                    | $\pm 100$            | mA   |
| $I_{GND}$     | DC Ground Current per Ground Pin                                    | $\pm 100$            | mA   |
| $T_{STG}$     | Storage Temperature Range                                           | -65 to +150          | °C   |
| $T_L$         | Lead Temperature, 1 mm from Case for 10 Seconds                     | 260                  | °C   |
| $T_J$         | Junction Temperature Under Bias                                     | 150                  | °C   |
| MSL           | Moisture Sensitivity                                                | Level 1              |      |
| $F_R$         | Flammability Rating Oxygen Index: 28 to 34                          | UL 94 V-0 @ 0.125 in |      |
| $I_{LATCHUP}$ | Latchup Performance Above $V_{CC}$ and Below GND at 125 °C (Note 5) | $\pm 500$            | mA   |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow.
2. Tested to EIA/JESD22-A114-A.
3. Tested to EIA/UESD22-A115-A.
4. Tested to JESD22-C101-A.
5. Tested to EIA / JESD78.

## RECOMMENDED OPERATING CONDITIONS

| Symbol              | Parameter                                                                                                                    | Min         | Max           | Unit |
|---------------------|------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|------|
| $V_{CC}$            | Positive DC Supply Voltage                                                                                                   | 1.65        | 5.5           | V    |
| $V_{IN}$            | Digital Input Voltage                                                                                                        | 0           | 5.5           | V    |
| $V_{OUT}$           | Output Voltage                                                                                                               | 0           | 5.5           | V    |
| $T_A$               | Operating Free-Air Temperature                                                                                               | -55         | +125          | °C   |
| $\Delta t/\Delta V$ | Input Transition Rise or Fall Rate<br>$V_{CC} = 2.5 V \pm 0.2 V$<br>$V_{CC} = 3.3 V \pm 0.3 V$<br>$V_{CC} = 5.0 V \pm 0.5 V$ | 0<br>0<br>0 | 20<br>10<br>5 | ns/V |

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## DC ELECTRICAL CHARACTERISTICS

| Symbol           | Parameter                        | Conditions                                                                       | V <sub>CC</sub><br>(V) | T <sub>A</sub> = 25 °C |      |                        | T <sub>A</sub> = +85°C |                        | T <sub>A</sub> = -55°C to +125°C |                        | Unit |
|------------------|----------------------------------|----------------------------------------------------------------------------------|------------------------|------------------------|------|------------------------|------------------------|------------------------|----------------------------------|------------------------|------|
|                  |                                  |                                                                                  |                        | Min                    | Typ  | Max                    | Min                    | Max                    | Min                              | Max                    |      |
| V <sub>IH</sub>  | Low-Level Input Voltage          |                                                                                  | 1.65–1.95              | 0.75 x V <sub>CC</sub> |      |                        | 0.75 x V <sub>CC</sub> |                        | 0.75 x V <sub>CC</sub>           |                        | V    |
|                  |                                  |                                                                                  | 2.3 to 5.5             | 0.70 x V <sub>CC</sub> |      |                        | 0.70 x V <sub>CC</sub> |                        | 0.70 x V <sub>CC</sub>           |                        |      |
| V <sub>IL</sub>  | Low-Level Input Voltage          |                                                                                  | 1.65–1.95              |                        |      | 0.25 x V <sub>CC</sub> |                        | 0.25 x V <sub>CC</sub> |                                  | 0.25 x V <sub>CC</sub> | V    |
|                  |                                  |                                                                                  | 2.3 – 5.5              |                        |      | 0.30 x V <sub>CC</sub> |                        | 0.30 x V <sub>CC</sub> |                                  | 0.30 x V <sub>CC</sub> |      |
| V <sub>OL</sub>  | Low-Level Output Voltage         | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OL</sub> = 100 µA | 1.65 – 5.5             |                        |      | 0.1                    |                        | 0.1                    |                                  | 0.1                    | V    |
|                  |                                  | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OH</sub> = 4 mA   | 1.65                   |                        | 0.08 | 0.24                   |                        | 0.24                   |                                  | 0.24                   |      |
|                  |                                  | I <sub>OH</sub> = 8 mA                                                           | 2.3                    |                        | 0.2  | 0.3                    |                        | 0.3                    |                                  | 0.3                    |      |
|                  |                                  | I <sub>OH</sub> = 12 mA                                                          | 2.7                    |                        | 0.22 | 0.4                    |                        | 0.4                    |                                  | 0.4                    |      |
|                  |                                  | I <sub>OH</sub> = 16 mA                                                          | 3.0                    |                        | 0.28 | 0.4                    |                        | 0.4                    |                                  | 0.4                    |      |
|                  |                                  | I <sub>OH</sub> = 24 mA                                                          | 3.0                    |                        | 0.38 | 0.55                   |                        | 0.55                   |                                  | 0.55                   |      |
|                  |                                  | I <sub>OH</sub> = 32 mA                                                          | 4.5                    |                        | 0.42 | 0.55                   |                        | 0.55                   |                                  | 0.55                   |      |
| I <sub>LKG</sub> | Z-State Output Leakage Current   | V <sub>IN</sub> = V <sub>IL</sub> ,<br>V <sub>OUT</sub> = V <sub>CC</sub> or GND | 5.5                    |                        |      | ±5.0                   |                        | ±10                    |                                  | ±10                    | µA   |
| I <sub>IN</sub>  | Input Leakage Current            | 0 ≤ V <sub>IN</sub> ≤ 5.5 V                                                      | 0 to 5.5               |                        |      | ±0.1                   |                        | ±1.0                   |                                  | ±1.0                   | µA   |
| I <sub>OFF</sub> | Power-Off Output Leakage Current | V <sub>IN</sub> or V <sub>OUT</sub> = 5.5 V                                      | 0                      |                        |      | 1.0                    |                        | 10                     |                                  | 10                     | µA   |
| I <sub>CC</sub>  | Quiescent Supply Current         | 0 ≤ V <sub>IN</sub> ≤ V <sub>CC</sub>                                            | 5.5                    |                        |      | 1.0                    |                        | 10                     |                                  | 10                     | µA   |

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## AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ nS)

| Symbol    | Parameter                                 | $V_{CC}$<br>(V) | Test Condition                                        | $T_A = 25^\circ\text{C}$ |     |      | $T_A = -55^\circ\text{C}$<br>to $+125^\circ\text{C}$ |     | Unit |
|-----------|-------------------------------------------|-----------------|-------------------------------------------------------|--------------------------|-----|------|------------------------------------------------------|-----|------|
|           |                                           |                 |                                                       | Min                      | Typ | Max  | Min                                                  | Max |      |
| $t_{PZL}$ | Propagation Delay<br>(Figures 3 and 4)    | 1.65–1.95       | $R_L = R_1 = 5000\ \Omega$ ,<br>$C_L = 15\ \text{pF}$ | 2.0                      | 5.7 | 10.5 | 2.0                                                  | 11  | ns   |
|           |                                           | 2.3–2.7         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  | 0.8                      | 3.0 | 3.6  | 0.8                                                  | 4.1 |      |
|           |                                           | 3.0–3.6         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  | 0.8                      | 2.4 | 3.2  | 0.8                                                  | 3.7 |      |
|           |                                           | 4.5–5.5         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  | 0.5                      | 2.4 | 3.0  | 0.5                                                  | 3.5 |      |
| $t_{PLZ}$ | Propagation Delay<br>(Figures 3 and 4)    | 1.65–1.95       | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  |                          | 5.7 | 10.5 |                                                      | 11  | ns   |
|           |                                           | 2.3–2.7         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  |                          | 3.8 | 3.6  |                                                      | 4.1 |      |
|           |                                           | 3.0–3.6         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  |                          | 2.9 | 3.2  |                                                      | 3.7 |      |
|           |                                           | 4.5–5.5         | $R_L = R_1 = 500\ \Omega$ ,<br>$C_L = 50\ \text{pF}$  |                          | 1.2 | 3.0  |                                                      | 3.5 |      |
| $C_{IN}$  | Input Capacitance                         | 5.5             | $V_{IN} = 0\ \text{V}$ or $V_{CC}$                    |                          | 2.5 |      |                                                      |     | pF   |
| $C_{OUT}$ | Output Capacitance                        | 5.5             | $V_{IN} = 0\ \text{V}$ or $V_{CC}$                    |                          | 4   |      |                                                      |     | pF   |
| $C_{PD}$  | Power Dissipation Capacitance<br>(Note 6) | 3.3<br>5.5      | 10 MHz<br>$V_{IN} = 0\ \text{V}$ or $V_{CC}$          |                          | 4   |      |                                                      |     | pF   |

6.  $C_{PD}$  is defined as the value of the internal equivalent capacitance which is calculated from the dynamic operating current consumption without load. Average operating current can be obtained by the equation  $I_{CC(OPR)} = C_{PD} \cdot V_{CC} \cdot f_{in} + I_{CC}$ .  $C_{PD}$  is used to determine the no-load dynamic power consumption:  $P_D = C_{PD} \cdot V_{CC}^2 \cdot f_{in} + I_{CC} \cdot V_{CC}$ .

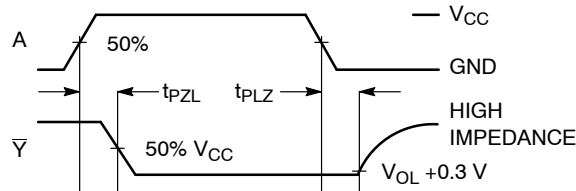


Figure 3. Switching Waveforms

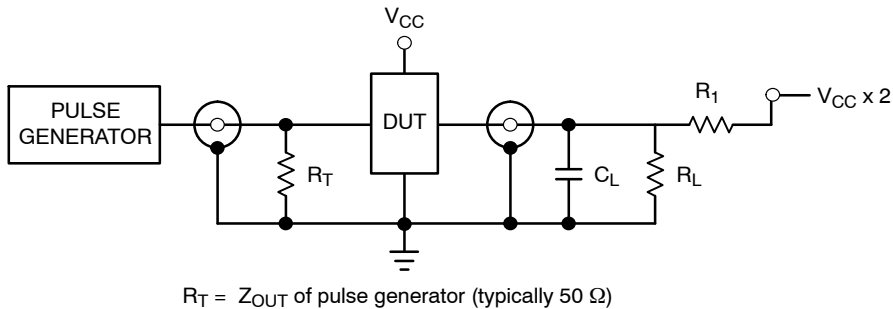


Figure 4. Test Circuit

## NLX2G06

### ORDERING INFORMATION

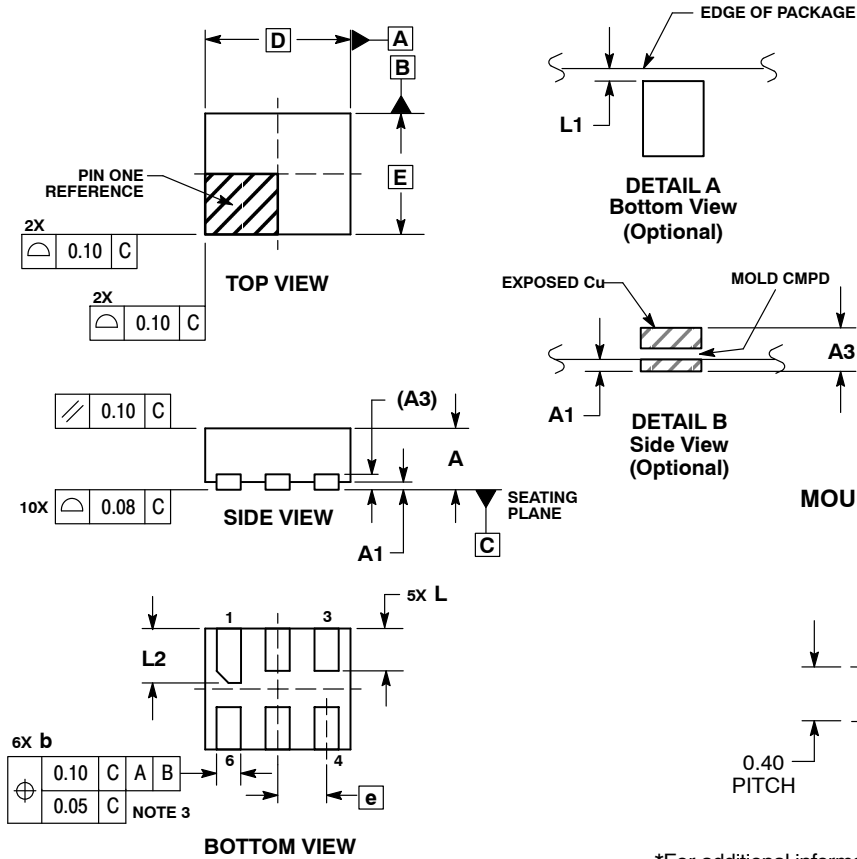
| Device                         | Package                               | Shipping†          |
|--------------------------------|---------------------------------------|--------------------|
| NLX2G06AMX1TCG                 | ULLGA6, 1.45 x 1.0, 0.5P<br>(Pb-Free) | 3000 / Tape & Reel |
| NLX2G06BMX1TCG                 | ULLGA6, 1.2 x 1.0, 0.4P<br>(Pb-Free)  | 3000 / Tape & Reel |
| NLX2G06CMX1TCG                 | ULLGA6, 1.0 x 1.0, 0.35P<br>(Pb-Free) | 3000 / Tape & Reel |
| NLX2G06MUTCG<br>In Development | UDFN6, 1.2 x 1.0, 0.4P<br>(Pb-Free)   | 3000 / Tape & Reel |
| NLX2G06AMUTCG                  | UDFN6, 1.45 x 1.0, 0.5P<br>(Pb-Free)  | 3000 / Tape & Reel |
| NLX2G06CMUTCG                  | UDFN6, 1.0 x 1.0, 0.35P<br>(Pb-Free)  | 3000 / Tape & Reel |

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

# NLX2G06

## PACKAGE DIMENSIONS

UDFN6 1.2x1.0, 0.4P  
CASE 517AA  
ISSUE O

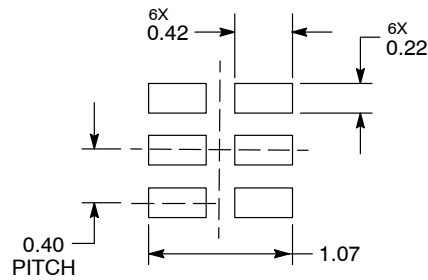


### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.25 AND 0.30 mm FROM TERMINAL.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

| MILLIMETERS |           |      |
|-------------|-----------|------|
| DIM         | MIN       | MAX  |
| A           | 0.45      | 0.55 |
| A1          | 0.00      | 0.05 |
| A3          | 0.127 REF |      |
| b           | 0.15      | 0.25 |
| D           | 1.20 BSC  |      |
| E           | 1.00 BSC  |      |
| e           | 0.40 BSC  |      |
| L           | 0.30      | 0.40 |
| L1          | 0.00      | 0.15 |
| L2          | 0.40      | 0.50 |

### MOUNTING FOOTPRINT\*



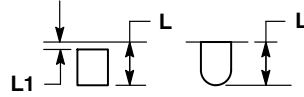
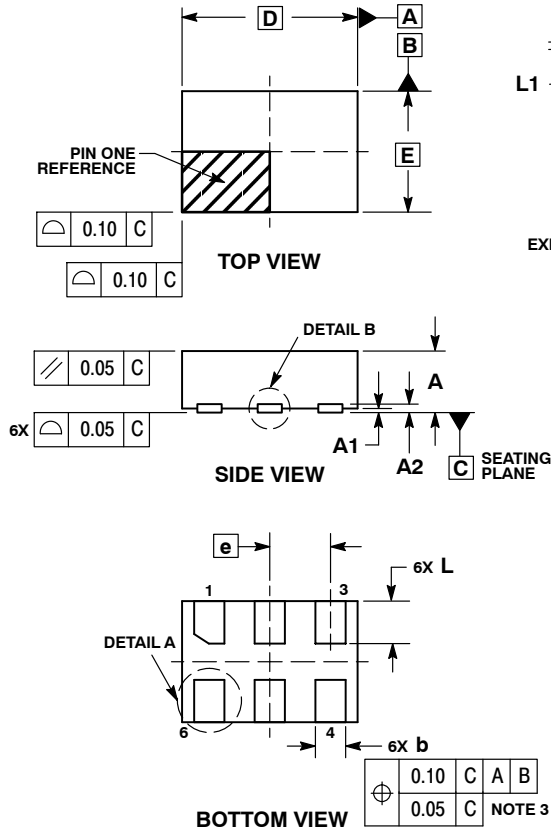
DIMENSIONS: MILLIMETERS

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

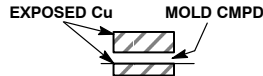
# NLX2G06

## PACKAGE DIMENSIONS

UDFN6 1.45x1.0, 0.5P  
CASE 517AQ  
ISSUE O



**DETAIL A**  
OPTIONAL  
CONSTRUCTIONS



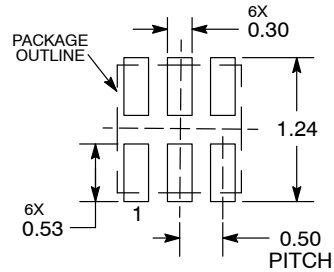
**DETAIL B**  
OPTIONAL  
CONSTRUCTIONS

### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.

| MILLIMETERS |          |      |
|-------------|----------|------|
| DIM         | MIN      | MAX  |
| A           | 0.45     | 0.55 |
| A1          | 0.00     | 0.05 |
| A2          | 0.07 REF |      |
| b           | 0.20     | 0.30 |
| D           | 1.45 BSC |      |
| E           | 1.00 BSC |      |
| e           | 0.50 BSC |      |
| L           | 0.30     | 0.40 |
| L1          | ---      | 0.15 |

### MOUNTING FOOTPRINT



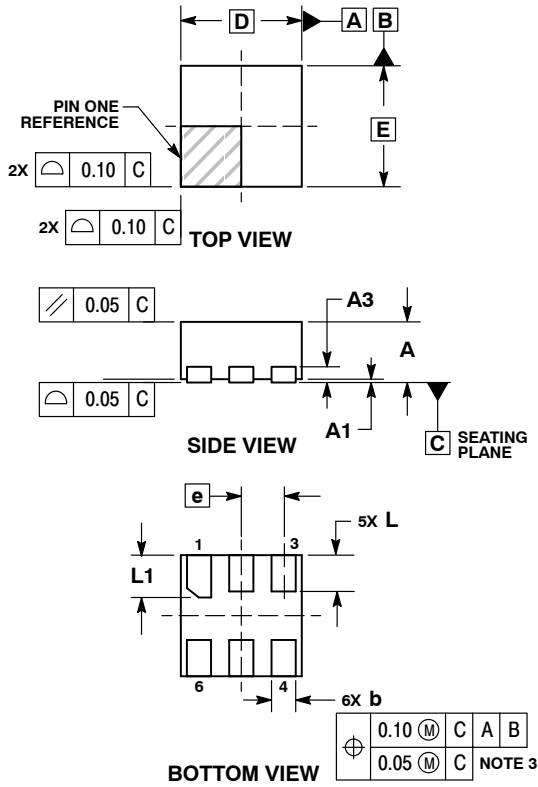
DIMENSIONS: MILLIMETERS

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

# NLX2G06

## PACKAGE DIMENSIONS

UDFN6 1.0x1.0, 0.35P  
CASE 517BX  
ISSUE O

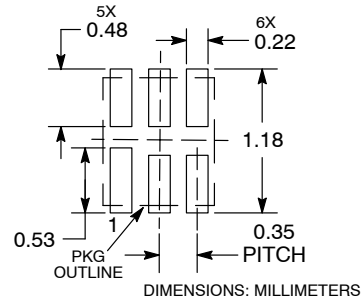


### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.20 MM FROM TERMINAL TIP.
4. PACKAGE DIMENSIONS EXCLUSIVE OF BURRS AND MOLD FLASH.

| MILLIMETERS |          |      |
|-------------|----------|------|
| DIM         | MIN      | MAX  |
| A           | 0.45     | 0.55 |
| A1          | 0.00     | 0.05 |
| A3          | 0.13 REF |      |
| b           | 0.12     | 0.22 |
| D           | 1.00 BSC |      |
| E           | 1.00 BSC |      |
| e           | 0.35 BSC |      |
| L           | 0.25     | 0.35 |
| L1          | 0.30     | 0.40 |

### RECOMMENDED SOLDERING FOOTPRINT\*



\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

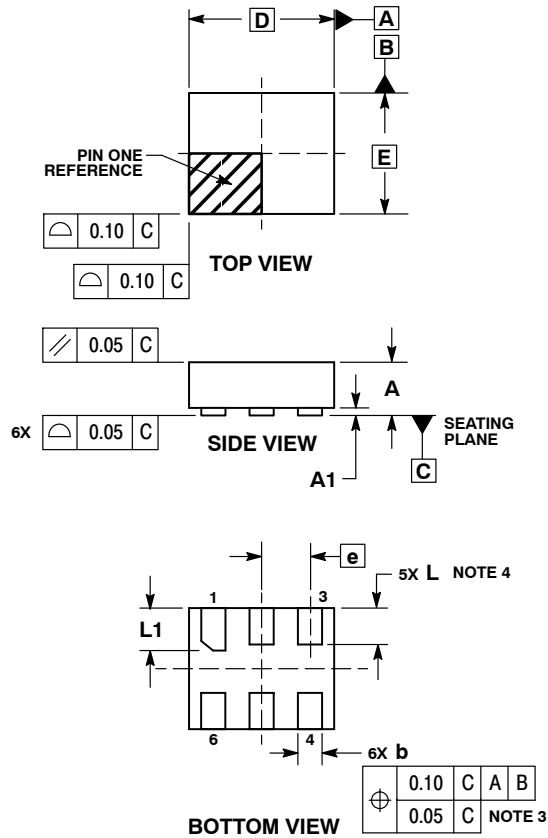




# NLX2G06

## PACKAGE DIMENSIONS

ULLGA6 1.2x1.0, 0.4P  
CASE 613AE  
ISSUE A

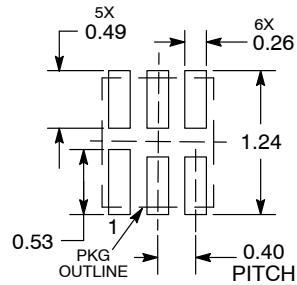


### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.
4. A MAXIMUM OF 0.05 PULL BACK OF THE PLATED TERMINAL FROM THE EDGE OF THE PACKAGE IS ALLOWED.

| MILLIMETERS |      |      |
|-------------|------|------|
| DIM         | MIN  | MAX  |
| A           | ---  | 0.40 |
| A1          | 0.00 | 0.05 |
| b           | 0.15 | 0.25 |
| D           | 1.20 | BSC  |
| E           | 1.00 | BSC  |
| e           | 0.40 | BSC  |
| L           | 0.25 | 0.35 |
| L1          | 0.35 | 0.45 |

### MOUNTING FOOTPRINT SOLDEMASK DEFINED\*



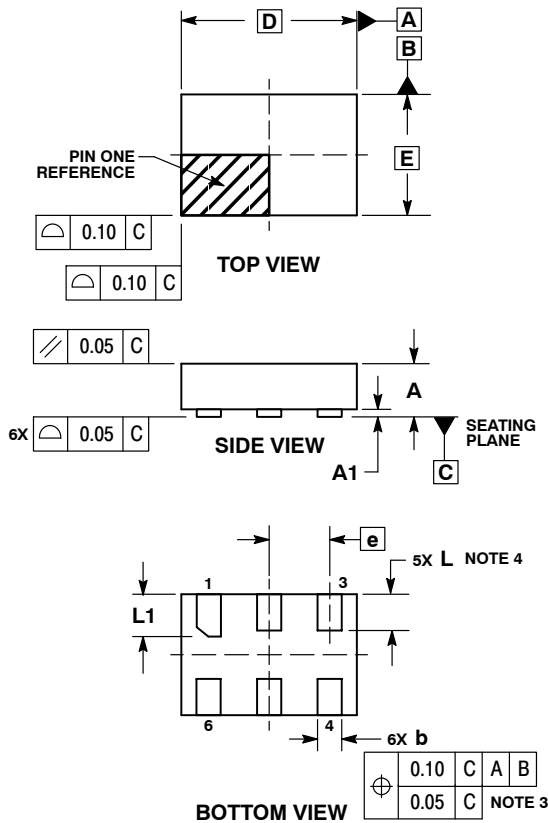
DIMENSIONS: MILLIMETERS

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# NLX2G06

## PACKAGE DIMENSIONS

ULLGA6 1.45x1.0, 0.5P  
CASE 613AF  
ISSUE A

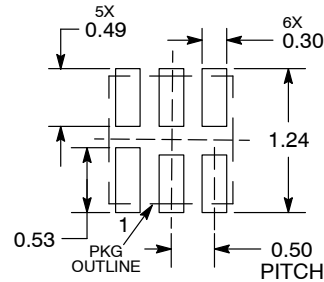


### NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.
4. A MAXIMUM OF 0.05 PULL BACK OF THE PLATED TERMINAL FROM THE EDGE OF THE PACKAGE IS ALLOWED.

| MILLIMETERS |      |      |
|-------------|------|------|
| DIM         | MIN  | MAX  |
| A           | ---  | 0.40 |
| A1          | 0.00 | 0.05 |
| b           | 0.15 | 0.25 |
| D           | 1.45 | BSC  |
| E           | 1.00 | BSC  |
| e           | 0.50 | BSC  |
| L           | 0.25 | 0.35 |
| L1          | 0.30 | 0.40 |

### MOUNTING FOOTPRINT SOLDERMASK DEFINED\*



DIMENSIONS: MILLIMETERS

\*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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