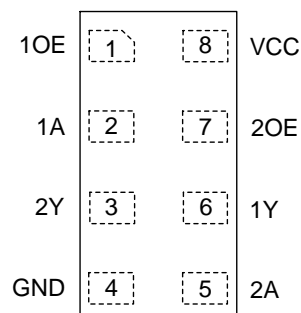


Description

The 74LVC2G126 is a dual buffer gate with 3-state outputs. The device is designed for operation over a power supply range of 1.65V to 5.5V. 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.

Pin Assignments

(Top View)



X2-DFN2010-8
X2-DFN1410-8
X2-DFN1210-8

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
- Schmitt Trigger Action at all inputs makes the circuit tolerant for slower input rise and fall times. The hysteresis is typically 100mV at $V_{CC} = 3.0\text{V}$.
- ESD Protection Exceeds JESD 22
 - 2000-V Human Body Model (A114)
 - Exceeds 1000-V Charged Device Model (C101)
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

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 ROMs
 - TVs, DVDs, DVRs, Set Top Boxes
 - Cell Phones, Personal Navigation / GPS
 - MP3 Players, Cameras, Video Recorders

- Notes:
1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS) & 2011/65/EU (RoHS 2) compliant.
 2. See http://www.diodes.com/quality/lead_free.html 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.

Ordering Information (Note 4)

| Logic Device | Function | Package | Packing |
|--|----------------------------------|--|---------------------|
| 74 : Logic Prefix LVC : 1.65V to 5.5V Logic Family 2G : Dual Gate | 126: 3-State Buffer OE - High | HD4 : X2-DFN2010-8 HK3 : X2-DFN1410-8 RA3 : X2-DFN1210-8 | -7 : 7" Tape & Reel |

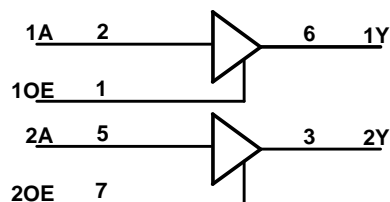
| Device | Package Code | Package (Note 5) | Package Size | 7" Tape and Reel (Note 6) | |
|-----------------|--------------|------------------|--|---------------------------|--------------------|
| | | | | Quantity | Part Number Suffix |
| 74LVC2G126HD4-7 | HD4 | X2-DFN2010-8 | 1.95mm x 1.0mm x 0.4mm 0.5 mm lead pitch | 5,000/Tape & Reel | -7 |
| 74LVC2G126HK3-7 | HK3 | X2-DFN1410-8 | 1.35mm x 1.0mm x 0.35mm 0.4 mm lead pitch | 5,000/Tape & Reel | -7 |
| 74LVC2G126RA3-7 | RA3 | X2-DFN1210-8 | 1.2mm x 1.0mm x 0.35mm 0.3 mm lead pitch | 5,000/Tape & Reel | -7 |

Notes: 4. For packaging details, go to our website at <http://www.diodes.com/products/packages.html>.
 5. Pad layout as shown in Diodes Incorporated's package outline PDFs, which can be found on our website at <http://www.diodes.com/package-outlines.html>.
 6. The taping orientation is located on our website at <http://www.diodes.com/datasheets/ap02007.pdf>.

Pin Descriptions

| Pin Name | Pin No. | Description |
|-----------------|---------|----------------------------|
| 1OE | 1 | Output Enable for buffer 1 |
| 1A | 2 | Data Input |
| 2Y | 3 | Data Output |
| GND | 4 | Ground |
| 2A | 5 | Data Input |
| 1Y | 6 | Data Output |
| 2OE | 7 | Output Enable for buffer 2 |
| V _{CC} | 8 | Supply Voltage |

Logic Diagram



Function Table

| Inputs | | Output |
|--------|---|--------|
| OE | A | Y |
| H | H | H |
| H | L | L |
| L | X | Z |

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 |
| V _{CC} | Supply Voltage | -0.5 to +6.5 | V |
| V _I | Input Voltage | -0.5 to +6.5 | V |
| V _O | Output Voltage - Active Mode | -0.5 to V _{CC} +0.5 | V |
| | Output Voltage Power Down Mode | -0.5 to +6.5 | V |
| I _{IK} | Input Clamp Current V _I < 0 | -50 | mA |
| I _{OK} | Output Clamp Current (V _O < 0 OR V _O > V _{CC}) | ±50 | mA |
| I _O | Continuous Output Current (V _O = 0 to V _{CC}) | ±50 | mA |
| I _{CC} | Continuous Current Through V _{CC} | 100 | mA |
| I _{GND} | Continuous Current Through GND | -100 | mA |
| T _J | Operating Junction Temperature | -40 to +150 | °C |
| T _{STG} | Storage Temperature | -65 to +150 | °C |

- Notes:
- 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.
 - 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 _I | Input Voltage | | 0 | 5.5 | V |
| V _O | Output Voltage Active Mode | | 0 | V _{CC} | V |
| | Output Voltage Power-Down Mode | | 0 | 5.5 | |
| I _{OH} | High-Level Output Current | V _{CC} = 1.65V | — | -4 | mA |
| | | V _{CC} = 2.3V | — | -8 | |
| | | V _{CC} = 2.7V | — | -12 | |
| | | V _{CC} = 3.0V | — | -16 | |
| | | | — | -24 | |
| | | V _{CC} = 4.5V | — | -32 | |
| I _{OL} | Low-Level Output Current | V _{CC} = 1.65V | — | 4 | mA |
| | | V _{CC} = 2.3V | — | 8 | |
| | | V _{CC} = 2.7V | — | 12 | |
| | | V _{CC} = 3.0V | — | 16 | |
| | | | — | 24 | |
| | | V _{CC} = 4.5V | — | 32 | |
| Δt/ΔV | Input Transition Rise or Fall Rate | V _{CC} = 1.65V to 2.7V | — | 20 | ns/V |
| | | V _{CC} = 2.7V to 5.5V | — | 10 | |
| T _A | Operating Free-Air Temperature | | -40 | +125 | °C |

Note: 9. Unused inputs should be held at V_{CC} or Ground.

Electrical Characteristics (All typical values are at $T_A = +25^\circ\text{C}$)

| Symbol | Parameter | Test Conditions | V_{CC} | -40°C to +85°C | | | -40°C to +125°C | | Unit |
|-----------------|----------------------------|--|---|----------------------|-----------|----------------------|----------------------|----------------------|---------------|
| | | | | Min | Typ. | Max | Min | Max | |
| V_{IH} | High-Level Input Voltage | — | $V_{CC} = 1.65\text{V to }1.95\text{V}$ | $0.65 \times V_{CC}$ | — | — | $0.65 \times V_{CC}$ | — | V |
| | | | $V_{CC} = 2.3\text{V to }2.7\text{V}$ | 1.7 | — | — | 1.7 | — | |
| | | | $V_{CC} = 2.7\text{V to }3.6\text{V}$ | 2.0 | — | — | 2.0 | — | |
| | | | $V_{CC} = 4.5\text{V to }5.5\text{V}$ | $0.7 \times V_{CC}$ | — | — | $0.7 \times V_{CC}$ | — | |
| V_{IL} | Low-Level Input Voltage | — | $V_{CC} = 1.65\text{V to }1.95\text{V}$ | — | — | $0.35 \times V_{CC}$ | — | $0.35 \times V_{CC}$ | V |
| | | | $V_{CC} = 2.3\text{V to }2.7\text{V}$ | — | — | 0.7 | — | 0.7 | |
| | | | $V_{CC} = 2.7\text{V to }3.6\text{V}$ | — | — | 0.8 | — | 0.8 | |
| | | | $V_{CC} = 4.5\text{V to }5.5\text{V}$ | — | — | $0.3 \times V_{CC}$ | — | $0.3 \times V_{CC}$ | |
| V_{OH} | High-Level Output Voltage | $I_{OH} = -100\mu\text{A}$ | 1.65V to 5.5V | $V_{CC} - 0.1$ | V_{CC} | — | $V_{CC} - 0.1$ | — | V |
| | | $I_{OH} = -4\text{mA}$ | 1.65V | 1.2 | 1.53 | — | 0.95 | — | |
| | | $I_{OH} = -8\text{mA}$ | 2.3V | 1.9 | 2.13 | — | 1.7 | — | |
| | | $I_{OH} = -12\text{mA}$ | 2.7 | 2.2 | 2.5 | — | 1.9 | — | |
| | | $I_{OH} = -16\text{mA}$ | 3V | 2.4 | 2.7 | — | 2.2 | — | |
| | | $I_{OH} = -24\text{mA}$ | | 2.3 | 2.6 | — | 2.0 | — | |
| | | $I_{OH} = -32\text{mA}$ | 4.5V | 3.8 | 4.1 | — | 3.4 | — | |
| V_{OL} | Low-Level Output Voltage | $I_{OL} = 100\mu\text{A}$ | 1.65V to 5.5V | — | 0 | 0.1 | — | 0.1 | V |
| | | $I_{OL} = 4\text{mA}$ | 1.65V | — | 0.08 | 0.45 | — | 0.7 | |
| | | $I_{OL} = 8\text{mA}$ | 2.3V | — | 0.14 | 0.3 | — | 0.45 | |
| | | $I_{OL} = 12\text{mA}$ | 2.7V | — | 0.19 | 0.4 | — | 0.6 | |
| | | $I_{OL} = 16\text{mA}$ | 3V | — | 0.25 | 0.4 | — | 0.6 | |
| | | $I_{OL} = 24\text{mA}$ | | — | 0.37 | 0.55 | — | 0.8 | |
| | | $I_{OL} = 32\text{mA}$ | 4.5V | — | 0.43 | 0.55 | — | 0.8 | |
| I_I | Input Current | $V_I = 5.5\text{V or GND}$ | 0V to 5.5V | — | ± 0.1 | ± 5 | — | ± 20 | μA |
| I_{OZ} | Z-State Leakage Current | $V_I = V_{IH} \text{ or } V_{IL}$ $V_O = 5.5\text{V or GND}$ | 3.6V | — | ± 0.1 | ± 10 | — | ± 20 | μA |
| I_{OFF} | Power Down Leakage Current | $V_I \text{ or } V_O = 5.5\text{V}$ | 0V | — | ± 0.1 | ± 10 | — | ± 20 | μA |
| I_{CC} | Supply Current | $V_I = 5.5\text{V or GND}$ $I_O = 0\text{A}$ | 1.65V to 5.5V | — | 0.1 | 10 | — | 40 | μA |
| ΔI_{CC} | Additional Supply Current | One input at $V_{CC} - 0.6\text{V}$ Other inputs at V_{CC} or GND | 2.3V to 5.5V | — | 5 | 500 | — | 5,000 | μA |
| C_I | Input Capacitance | $V_I = V_{CC} \text{ or GND}$ | 3.3V | — | 2.5 | — | — | — | pF |

Operating Characteristics

| Parameter | | Test Conditions | V _{CC} = 1.8V | V _{CC} = 2.5V | V _{CC} = 3.3V | V _{CC} = 5V | Unit |
|-----------------|-------------------------------|------------------------------|------------------------|------------------------|------------------------|----------------------|------|
| | | | Typ. | Typ. | Typ. | Typ. | |
| C _{pd} | Power Dissipation Capacitance | f = 10MHz output enabled | 17 | 17 | 17 | 17 | pF |
| | | f = 10MHz output disabled | 5 | 5 | 5 | 5 | pF |

Package Characteristics

| Symbol | Parameter | Package | Test Conditions | Min | Typ. | Max | Unit |
|-----------------|--|--------------|-----------------|-----|------|-----|------|
| θ _{JA} | Thermal Resistance Junction-to-Ambient | X2-DFN2010-8 | (Note 10) | — | 313 | — | °C/W |
| | | X2-DFN1410-8 | | — | 321 | — | |
| | | X2-DFN1210-8 | | — | 395 | — | |
| θ _{JC} | Thermal Resistance Junction-to-Case | X2-DFN2010-8 | (Note 10) | — | 145 | — | °C/W |
| | | X2-DFN1410-8 | | — | 166 | — | |
| | | X2-DFN1210-8 | | — | 236 | — | |

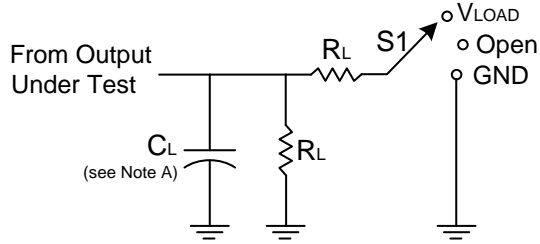
Note: 10. Test condition for each package type: Device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.

Switching Characteristics

Typical Values at T_A = +25°C and nominal voltages 1.8V, 2.5V, 2.7V, 3.3V, and 5.0V. See Figure 1.

| Parameter | From Input | To Output | V _{CC} | T _A = -40°C to +85°C | | | T _A = -40°C to +125°C | | Unit |
|------------------|------------|-----------|-----------------|---------------------------------|-----|------|----------------------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | |
| t _{pd} | A | Y | 1.8V ± 0.15V | 1.0 | 3.9 | 9.8 | 1.0 | 12.3 | ns |
| | | | 2.5V ± 0.2V | 0.5 | 2.6 | 4.9 | 0.5 | 6.3 | |
| | | | 2.7V | 1.0 | 2.8 | 4.7 | 1.0 | 5.9 | |
| | | | 3.3V ± 0.3V | 0.5 | 2.4 | 4.4 | 0.5 | 5.4 | |
| | | | 5.0V ± 0.5V | 0.5 | 1.9 | 3.9 | 0.5 | 4.0 | |
| t _{en} | OE | Y | 1.8V ± 0.15V | 1.0 | 4.1 | 10.0 | 1.0 | 12.5 | ns |
| | | | 2.5V ± 0.2V | 1.0 | 2.6 | 5.0 | 1.0 | 6.3 | |
| | | | 2.7V | 1.0 | 2.8 | 4.7 | 1.0 | 5.9 | |
| | | | 3.3V ± 0.3V | 1.0 | 2.4 | 4.1 | 1.0 | 5.1 | |
| | | | 5.0V ± 0.5V | 0.5 | 1.8 | 3.4 | 0.5 | 3.9 | |
| t _{dis} | OE | Y | 1.8V ± 0.15V | 1.0 | 3.3 | 12.6 | 1.0 | 15.4 | ns |
| | | | 2.5V ± 0.2V | 0.5 | 1.9 | 5.7 | 0.5 | 7.5 | |
| | | | 2.7V | 1.5 | 3.0 | 4.8 | 1.5 | 6.2 | |
| | | | 3.3V ± 0.3V | 1.0 | 2.5 | 4.4 | 1.0 | 5.7 | |
| | | | 5.0V ± 0.5V | 0.5 | 1.8 | 3.3 | 0.5 | 4.4 | |

Parameter Measurement Information



| TEST | S1 |
|-------------------|------------|
| t_{PLH}/t_{PHL} | Open |
| t_{PLZ}/t_{PZL} | V_{LOAD} |
| t_{PHZ}/t_{PZH} | GND |

| V_{CC} | Inputs | | V_M | V_{LOAD} | C_L | R_L | V_{Δ} |
|------------------|----------|--------------|------------|-------------------|-------|--------------|--------------|
| | V_I | t_r/t_f | | | | | |
| $1.8V \pm 0.15V$ | V_{CC} | $\leq 2ns$ | $V_{CC}/2$ | $2 \times V_{CC}$ | 30pF | 1k Ω | 0.15V |
| $2.5V \pm 0.2V$ | V_{CC} | $\leq 2ns$ | $V_{CC}/2$ | $2 \times V_{CC}$ | 30pF | 500 Ω | 0.15V |
| 2.7V | 2.7V | $\leq 2.5ns$ | 1.5V | 6V | 50pF | 500 Ω | 0.3V |
| $3.3V \pm 0.3V$ | 3V | $\leq 2.5ns$ | 1.5V | 6V | 50pF | 500 Ω | 0.3V |
| $5V \pm 0.5V$ | V_{CC} | $\leq 2.5ns$ | $V_{CC}/2$ | $2 \times V_{CC}$ | 50pF | 500 Ω | 0.3V |

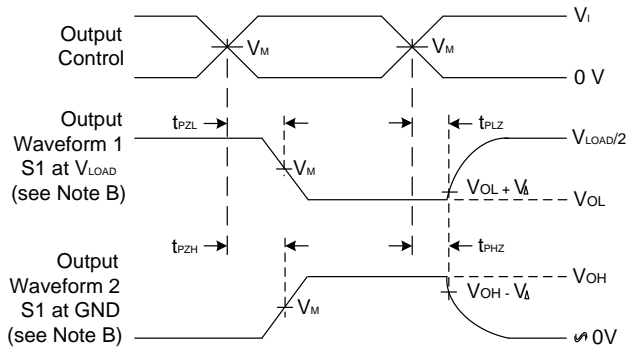
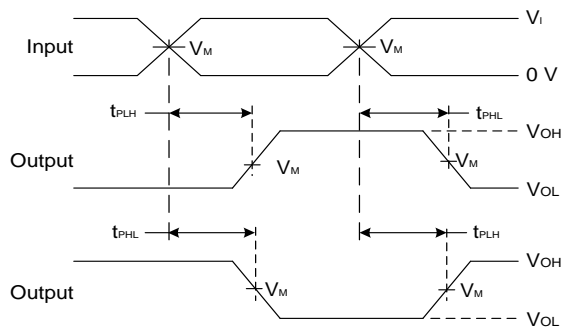
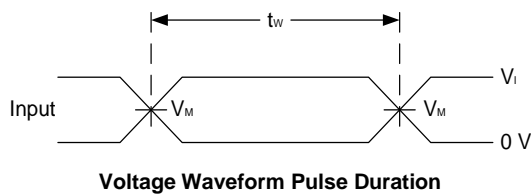
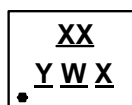


Figure 1. Load Circuit and Voltage Waveforms

- Notes:
- A. Includes test lead and test apparatus capacitance.
 - B. All pulses are supplied at pulse repetition rate $\leq 10MHz$.
 - C. Inputs are measured separately one transition per measurement.
 - D. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
 - E. t_{PZL} and t_{PZH} are the same as t_{en} .
 - F. t_{PLH} and t_{PHL} are the same as t_{pd} .

Marking Information

(Top View)



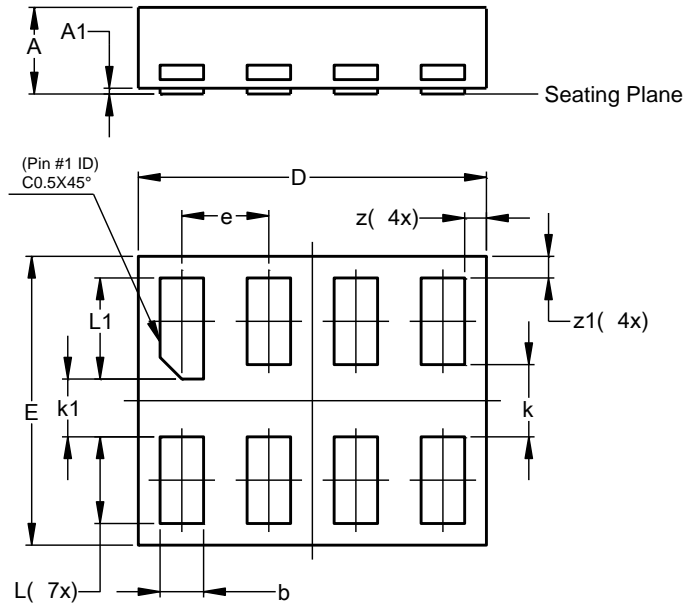
XX : Identification Code
Y : Year : 0~9
W : Week : A~Z : 1~26 week;
a~z : 27~52 week; z represents
52 and 53 week
X : Internal Code

| Part Number | Package | Identification Code |
|-----------------|--------------|---------------------|
| 74LVC2G126HD4-7 | X2-DFN2010-8 | 9X |
| 74LVC2G126HK3-7 | X2-DFN1410-8 | 9Y |
| 74LVC2G126RA3-7 | X2-DFN1210-8 | 9Z |

X2-DFN1210-8 Package Outline Dimensions

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

X2-DFN1210-8

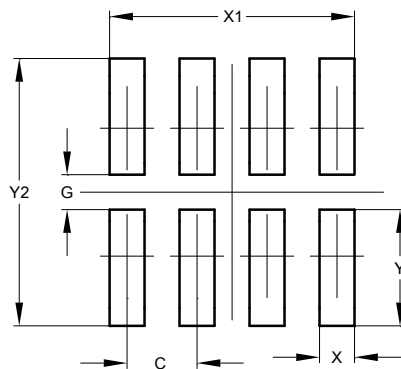


| X2-DFN1210-8 | | | |
|----------------------|-------|-------|-------|
| Dim | Min | Max | Typ |
| A | - | 0.35 | 0.30 |
| A1 | 0 | 0.03 | 0.02 |
| b | 0.10 | 0.20 | 0.15 |
| D | 1.15 | 1.25 | 1.20 |
| E | 0.95 | 1.05 | 1.00 |
| e | - | - | 0.30 |
| k | - | - | 0.25 |
| k1 | - | - | 0.20 |
| L | 0.25 | 0.35 | 0.30 |
| L1 | 0.30 | 0.40 | 0.35 |
| z | 0.050 | 0.100 | 0.075 |
| z1 | 0.050 | 0.100 | 0.075 |
| All Dimensions in mm | | | |

Suggested Pad Layout

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

X2-DFN1210-8

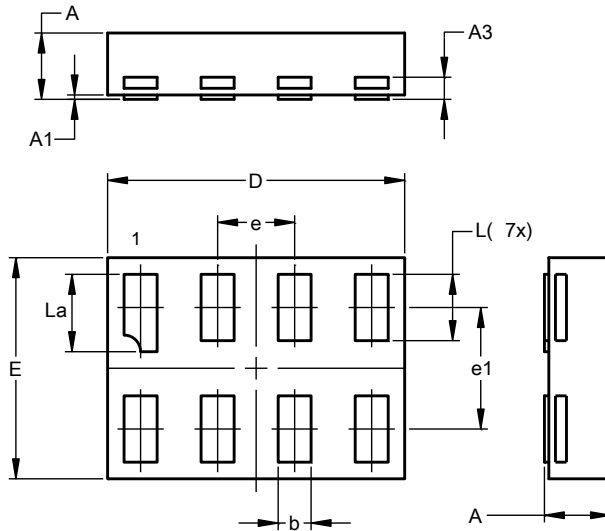


| Dimensions | Value (in mm) |
|------------|---------------|
| C | 0.300 |
| G | 0.150 |
| X | 0.150 |
| X1 | 1.050 |
| Y | 0.500 |
| Y1 | 1.150 |

X2-DFN1410-8 Package Outline Dimensions

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

X2-DFN1410-8

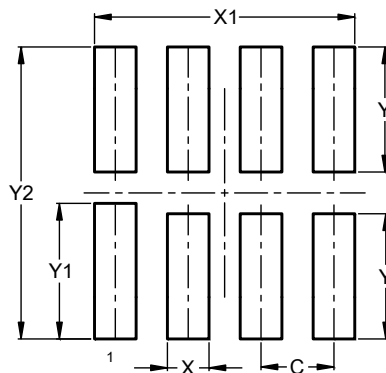


| X2-DFN1410-8 | | | |
|----------------------|------|------|------|
| Dim | Min | Max | Typ |
| A | 0.30 | 0.35 | 0.33 |
| A1 | 0.00 | 0.03 | 0.02 |
| A3 | -- | -- | 0.10 |
| b | 0.12 | 0.20 | 0.15 |
| D | 1.30 | 1.40 | 1.35 |
| E | 0.95 | 1.05 | 1.00 |
| e | -- | -- | 0.35 |
| e1 | -- | -- | 0.55 |
| L | 0.27 | 0.35 | 0.30 |
| L1 | 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.

X2-DFN1410-8

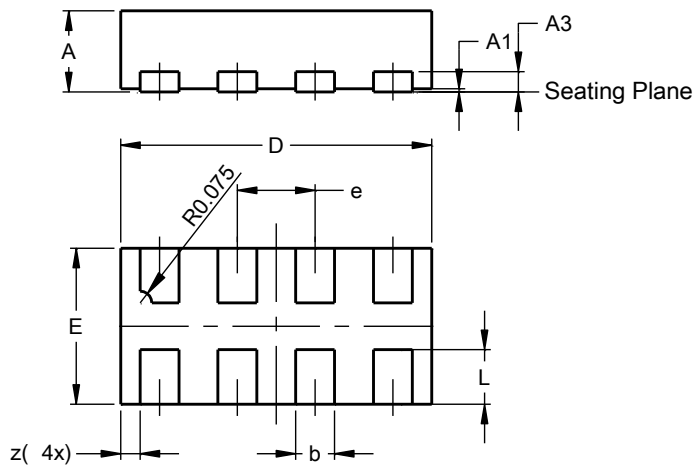


| Dimensions | Value (in mm) |
|------------|---------------|
| C | 0.350 |
| X | 0.200 |
| X1 | 1.250 |
| Y | 0.600 |
| Y1 | 0.650 |
| Y2 | 1.400 |

X2-DFN2010-8 Package Outline Dimensions

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

X2-DFN2010-8

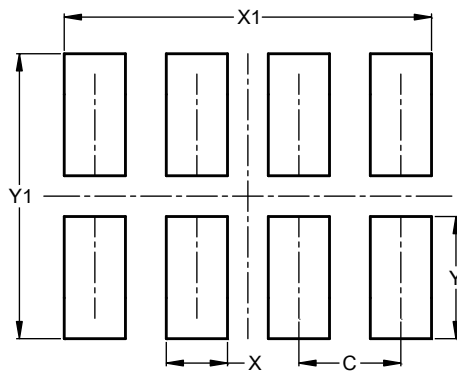


| X2-DFN2010-8 | | | |
|----------------------|-------|------|-------|
| Dim | Min | Max | Typ |
| A | -- | 0.40 | -- |
| A1 | 0.00 | 0.05 | 0.02 |
| A3 | -- | -- | 0.13 |
| b | 0.20 | 0.30 | 0.25 |
| D | 1.950 | 2.05 | 2.00 |
| E | 0.95 | 1.05 | 1.00 |
| e | -- | -- | 0.50 |
| L | 0.30 | 0.40 | 0.35 |
| z | -- | -- | 0.125 |
| All Dimensions in mm | | | |

Suggested Pad Layout

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

X2-DFN2010-8



| Dimensions | Value (in mm) |
|------------|---------------|
| C | 0.500 |
| X | 0.300 |
| X1 | 1.800 |
| Y | 0.600 |
| Y1 | 1.400 |

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LIFE SUPPORT

Diodes Incorporated products are specifically not authorized for use as critical components in life support devices or systems without the express written approval of the Chief Executive Officer of Diodes Incorporated. As used herein:

A. Life support devices or systems are devices or systems which:

1. are intended to implant into the body, or
2. support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in significant injury to the user.

B. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or to affect its safety or effectiveness.

Customers represent that they have all necessary expertise in the safety and regulatory ramifications of their life support devices or systems, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of Diodes Incorporated products in such safety-critical, life support devices or systems, notwithstanding any devices- or systems-related information or support that may be provided by Diodes Incorporated. Further, Customers must fully indemnify Diodes Incorporated and its representatives against any damages arising out of the use of Diodes Incorporated products in such safety-critical, life support devices or systems.

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