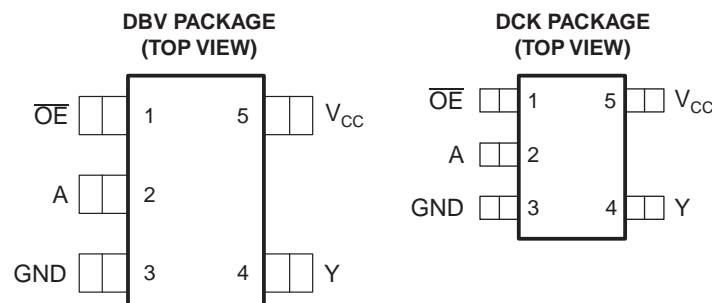


## SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUT

### FEATURES

- Qualified for Automotive Applications
- Supports 5-V  $V_{CC}$  Operation
- Inputs Accept Voltages to 5.5 V
- Low Power Consumption, 10- $\mu$ A Max  $I_{CC}$
- $\pm 24$ -mA Output Drive at 3.3 V
- $I_{off}$  Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
  - 2000-V Human-Body Model (A114-A)
  - 200-V Machine Model (A115-A)
  - 1000-V Charged-Device Model (C101)



### DESCRIPTION/ORDERING INFORMATION

This bus buffer gate is designed for 1.65-V to 5.5-V  $V_{CC}$  operation.

The SN74LVC1G125 is a single line driver with a 3-state output. The output is disabled when the output-enable ( $\overline{OE}$ ) input is high.

This device is fully specified for partial-power-down applications using  $I_{off}$ . The  $I_{off}$  circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to  $V_{CC}$  through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

### ORDERING INFORMATION<sup>(1)</sup>

| $T_A$          | PACKAGE <sup>(2)</sup> |              | ORDERABLE PART NUMBER | TOP-SIDE MARKING <sup>(3)</sup> |
|----------------|------------------------|--------------|-----------------------|---------------------------------|
| –40°C to 125°C | SOT (SC-70) – DCK      | Reel of 3000 | 1P1G125QDCKRQ1        | CM_                             |
|                | SOT (SOT-23) – DBV     | Reel of 3000 | CLVC1G125QDBVRQ1      | C25_                            |

(1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at [www.ti.com](http://www.ti.com).

(2) Package drawings, thermal data, and symbolization are available at [www.ti.com/packaging](http://www.ti.com/packaging).

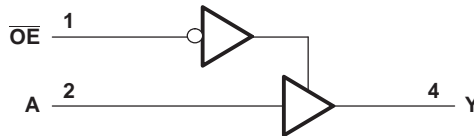
(3) DBV/DCK: The actual top-side marking has one additional character that designates the wafer fab/assembly site.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

**FUNCTION TABLE**

| INPUTS          |   | OUTPUT<br>Y |
|-----------------|---|-------------|
| $\overline{OE}$ | A |             |
| L               | H | H           |
| L               | L | L           |
| H               | X | Z           |

**LOGIC DIAGRAM (POSITIVE LOGIC)****Absolute Maximum Ratings<sup>(1)</sup>**

over operating free-air temperature range (unless otherwise noted)

|               |   | MIN         | MAX            | UNIT      |
|---------------|---|-------------|----------------|-----------|
| $V_{CC}$      | Supply voltage range  | -0.5        | 6.5            | V         |
| $V_I$         | Input voltage range <sup>(2)</sup>  | -0.5        | 6.5            | V         |
| $V_O$         | Voltage range applied to any output in the high-impedance or power-off state <sup>(2)</sup> | -0.5        | 6.5            | V         |
| $V_O$         | Voltage range applied to any output in the high or low state <sup>(2)(3)</sup>              | -0.5        | $V_{CC} + 0.5$ | V         |
| $I_{IK}$      | Input clamp current   |             | $V_I < 0$      | -50<br>mA |
| $I_{OK}$      | Output clamp current  |             | $V_O < 0$      | -50<br>mA |
| $I_O$         | Continuous output current   |             | $\pm 50$       | mA        |
|               | Continuous current through $V_{CC}$ or GND  |             | $\pm 100$      | mA        |
| $\theta_{JA}$ | Package thermal impedance <sup>(4)</sup>  | DBV package | 206            | °C/W      |
|               |   | DCK package | 252            |           |
| $T_{stg}$     | Storage temperature range   | -65         | 150            | °C        |

- (1) Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.
- (2) The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.
- (3) The value of  $V_{CC}$  is provided in the recommended operating conditions table.
- (4) The package thermal impedance is calculated in accordance with JESD 51-7.

**Recommended Operating Conditions<sup>(1)</sup>**

|                 |                                    |   | <b>MIN</b>             | <b>MAX</b>             | <b>UNIT</b> |
|-----------------|------------------------------------|---|------------------------|------------------------|-------------|
| V <sub>CC</sub> | Supply voltage                     | Operating                                       | 1.65                   | 5.5                    | V           |
|                 |                                    | Data retention only                             | 1.5                    |                        |             |
| V <sub>IH</sub> | High-level input voltage           | V <sub>CC</sub> = 1.65 V to 1.95 V              | 0.65 × V <sub>CC</sub> |                        | V           |
|                 |                                    | V <sub>CC</sub> = 2.3 V to 2.7 V                | 1.7                    |                        |             |
|                 |                                    | V <sub>CC</sub> = 3 V to 3.6 V                  | 2                      |                        |             |
|                 |                                    | V <sub>CC</sub> = 4.5 V to 5.5 V                | 0.7 × V <sub>CC</sub>  |                        |             |
| V <sub>IL</sub> | Low-level input voltage            | V <sub>CC</sub> = 1.65 V to 1.95 V              |                        | 0.35 × V <sub>CC</sub> | V           |
|                 |                                    | V <sub>CC</sub> = 2.3 V to 2.7 V                |                        | 0.7                    |             |
|                 |                                    | V <sub>CC</sub> = 3 V to 3.6 V                  |                        | 0.8                    |             |
|                 |                                    | V <sub>CC</sub> = 4.5 V to 5.5 V                |                        | 0.3 × 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> = 1.65 V                        |                        | –4                     | mA          |
|                 |                                    | V <sub>CC</sub> = 2.3 V                         |                        | –8                     |             |
|                 |                                    | V <sub>CC</sub> = 3 V                           |                        | –16                    |             |
|                 |                                    |   |                        | –24                    |             |
|                 |                                    | V <sub>CC</sub> = 4.5 V                         |                        | –24                    |             |
| I <sub>OL</sub> | Low-level output current           | V <sub>CC</sub> = 1.65 V                        |                        | 4                      | mA          |
|                 |                                    | V <sub>CC</sub> = 2.3 V                         |                        | 8                      |             |
|                 |                                    | V <sub>CC</sub> = 3 V                           |                        | 16                     |             |
|                 |                                    |   |                        | 24                     |             |
|                 |                                    | V <sub>CC</sub> = 4.5 V                         |                        | 24                     |             |
| Δt/Δv           | Input transition rise or fall rate | V <sub>CC</sub> = 1.8 V ± 0.15 V, 2.5 V ± 0.2 V |                        | 20                     | ns/V        |
|                 |                                    | V <sub>CC</sub> = 3.3 V ± 0.3 V                 |                        | 10                     |             |
|                 |                                    | V <sub>CC</sub> = 5 V ± 0.5 V                   |                        | 5                      |             |
| T <sub>A</sub>  | Operating free-air temperature     |   | –40                    | 125                    | °C          |

(1) All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

## Electrical Characteristics

over recommended operating free-air temperature range (unless otherwise noted)

| PARAMETER        |                             | TEST CONDITIONS   | V <sub>CC</sub> | MIN                   | TYP <sup>(1)</sup> | MAX          | UNIT |
|------------------|-----------------------------|---|-----------------|-----------------------|--------------------|--------------|------|
| V <sub>OH</sub>  |                             | I <sub>OH</sub> = –100 μA   | 1.65 V to 5.5 V | V <sub>CC</sub> – 0.1 |                    |              | V    |
|                  |                             | I <sub>OH</sub> = –4 mA   | 1.65 V          | 1.2                   |                    |              |      |
|                  |                             | I <sub>OH</sub> = –8 mA   | 2.3 V           | 1.9                   |                    |              |      |
|                  |                             | I <sub>OH</sub> = –16 mA  | 3 V             | 2.4                   |                    |              |      |
|                  |                             | I <sub>OH</sub> = –24 mA  | 3 V<br>4.5 V    | 2.3<br>3.8            |                    |              |      |
| V <sub>OL</sub>  |                             | I <sub>OL</sub> = 100 μA  | 1.65 V to 5.5 V |                       |                    | 0.1          | V    |
|                  |                             | I <sub>OL</sub> = 4 mA  | 1.65 V          |                       |                    | 0.45         |      |
|                  |                             | I <sub>OL</sub> = 8 mA  | 2.3 V           |                       |                    | 0.3          |      |
|                  |                             | I <sub>OL</sub> = 16 mA   | 3 V             |                       |                    | 0.4          |      |
|                  |                             | I <sub>OL</sub> = 24 mA   | 3 V<br>4.5 V    |                       |                    | 0.55<br>0.55 |      |
| I <sub>I</sub>   | A or $\overline{OE}$ inputs | V <sub>I</sub> = 5.5 V or GND   | 0 to 5.5 V      |                       |                    | ±5           | μA   |
| I <sub>off</sub> |                             | V <sub>I</sub> or V <sub>O</sub> = 5.5 V  | 0               |                       |                    | ±10          | μA   |
| I <sub>OZ</sub>  |                             | V <sub>O</sub> = 0 to 5.5 V   | 3.6 V           |                       |                    | 10           | μA   |
| I <sub>CC</sub>  |                             | V <sub>I</sub> = 5.5 V or GND, I <sub>O</sub> = 0                               | 1.65 V to 5.5 V |                       |                    | 10           | μA   |
| ΔI <sub>CC</sub> |                             | One input at V <sub>CC</sub> – 0.6 V,<br>Other inputs at V <sub>CC</sub> or GND | 3 V to 5.5 V    |                       |                    | 500          | μA   |
| C <sub>i</sub>   |                             | V <sub>I</sub> = V <sub>CC</sub> or GND   | 3.3 V           |                       | 4                  |              | pF   |

(1) All typical values are at V<sub>CC</sub> = 3.3 V, T<sub>A</sub> = 25°C.

## Switching Characteristics

over recommended operating free-air temperature range, C<sub>L</sub> = 50 pF (unless otherwise noted) (see [Figure 1](#))

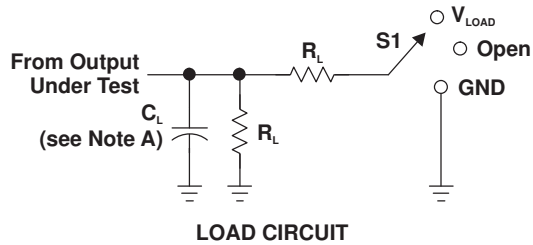
| PARAMETER        | FROM<br>(INPUT) | TO<br>(OUTPUT) | V <sub>CC</sub> = 3.3 V<br>± 0.3 V |     | V <sub>CC</sub> = 5 V<br>± 0.5 V |     | UNIT |
|------------------|-----------------|----------------|------------------------------------|-----|----------------------------------|-----|------|
|                  |                 |                | MIN                                | MAX | MIN                              | MAX |      |
| t <sub>pd</sub>  | A               | Y              | 1                                  | 5.1 | 1                                | 4.1 | ns   |
| t <sub>en</sub>  | $\overline{OE}$ | Y              | 1                                  | 6   | 1                                | 5   | ns   |
| t <sub>dis</sub> | $\overline{OE}$ | Y              | 1                                  | 5   | 0.5                              | 4.2 | ns   |

## Operating Characteristics

T<sub>A</sub> = 25°C

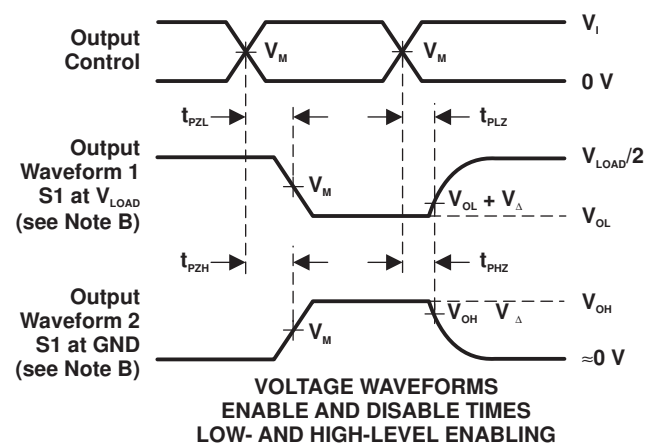
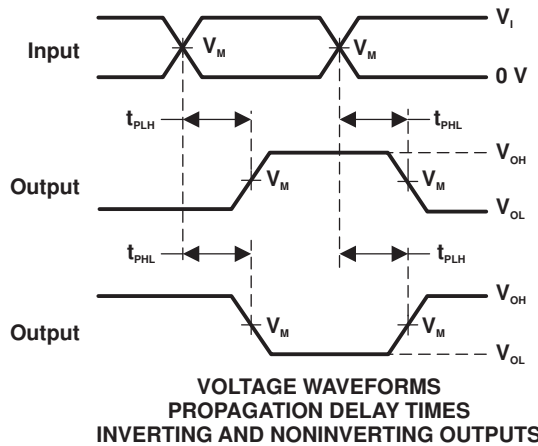
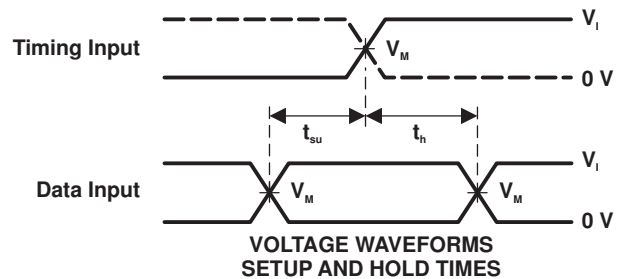
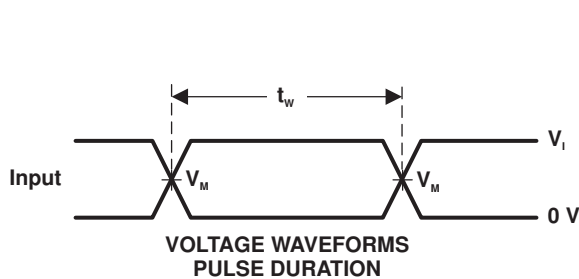
| PARAMETER       |                               | TEST<br>CONDITIONS | V <sub>CC</sub> = 3.3 V |     | V <sub>CC</sub> = 5 V |     | UNIT |
|-----------------|-------------------------------|--------------------|-------------------------|-----|-----------------------|-----|------|
|                 |                               |                    | TYP                     | TYP | TYP                   | TYP |      |
| C <sub>pd</sub> | Power dissipation capacitance | Outputs enabled    | f = 10 MHz              | 19  | 21                    | pF  |      |
|                 |                               | Outputs disabled   |                         | 2   | 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   |                      | $V_M$      | $V_{LOAD}$        | $C_L$ | $R_L$        | $V_{\Delta}$ |
|---------------------------------|----------|----------------------|------------|-------------------|-------|--------------|--------------|
|                                 | $V_I$    | $t_I/t_r$            |            |                   |       |              |              |
| $3.3\text{ V} \pm 0.3\text{ V}$ | 3 V      | $\leq 2.5\text{ ns}$ | 1.5 V      | 6 V               | 50 pF | 500 $\Omega$ | 0.3 V        |
| $5\text{ V} \pm 0.5\text{ V}$   | $V_{CC}$ | $\leq 2.5\text{ ns}$ | $V_{CC}/2$ | $2 \times V_{CC}$ | 50 pF | 500 $\Omega$ | 0.3 V        |



- NOTES: A.  $C_L$  includes probe and jig capacitance.  
 B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.  
 C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq 10\text{ MHz}$ ,  $Z_o = 50\ \Omega$ .  
 D. The outputs are measured one at a time, with one transition per measurement.  
 E.  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .  
 F.  $t_{PZL}$  and  $t_{PZH}$  are the same as  $t_{en}$ .  
 G.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .  
 H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

## PACKAGING INFORMATION

| Orderable Device | Status<br>(1) | Package Type | Package<br>Drawing | Pins | Package Qty | Eco Plan<br>(2)            | Lead/Ball Finish | MSL Peak Temp<br>(3) | Op Temp (°C) | Top-Side Markings<br>(4) | Samples   |
|------------------|---------------|--------------|--------------------|------|-------------|----------------------------|------------------|----------------------|--------------|--------------------------|---|
| 1P1G125QDCKRG4Q1 | ACTIVE        | SC70         | DCK                | 5    | 3000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 125   | CMR                      |  |
| 1P1G125QDCKRQ1   | ACTIVE        | SC70         | DCK                | 5    | 3000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 125   | CMR                      |  |
| CLVC1G125QDBVRQ1 | ACTIVE        | SOT-23       | DBV                | 5    | 3000        | Green (RoHS<br>& no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM   | -40 to 125   | C25O                     |  |

(1) The marketing status values are defined as follows:

**ACTIVE:** Product device recommended for new designs.

**LIFEBUY:** TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

**NRND:** Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

**PREVIEW:** Device has been announced but is not in production. Samples may or may not be available.

**OBSOLETE:** TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check <http://www.ti.com/productcontent> for the latest availability information and additional product content details.

**TBD:** The Pb-Free/Green conversion plan has not been defined.

**Pb-Free (RoHS):** TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

**Pb-Free (RoHS Exempt):** This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

**Green (RoHS & no Sb/Br):** TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) Only one of markings shown within the brackets will appear on the physical device.

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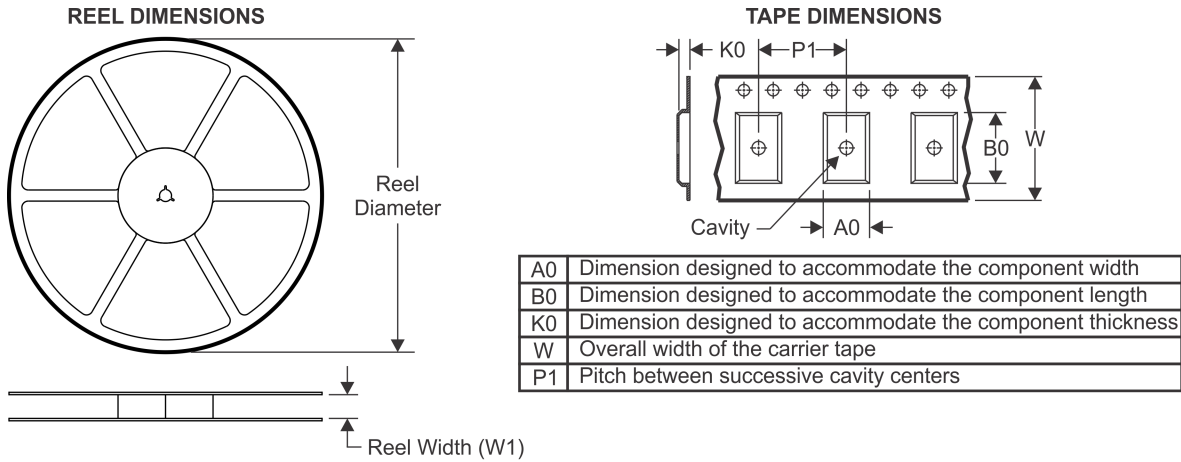
**OTHER QUALIFIED VERSIONS OF SN74LVC1G125-Q1 :**

- Catalog: [SN74LVC1G125](#)
- Enhanced Product: [SN74LVC1G125-EP](#)

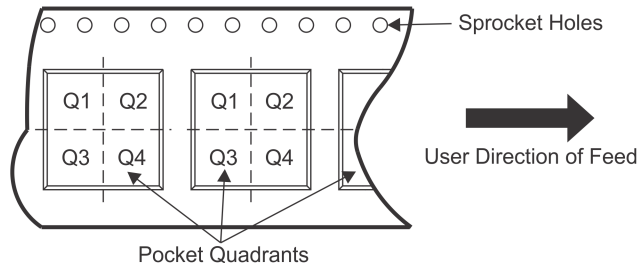
NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Enhanced Product - Supports Defense, Aerospace and Medical Applications

## TAPE AND REEL INFORMATION



### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



\*All dimensions are nominal

| Device           | Package Type | Package Drawing | Pins | SPQ  | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|------------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| CLVC1G125QDBVRQ1 | SOT-23       | DBV             | 5    | 3000 | 179.0              | 8.4                | 3.2     | 3.2     | 1.4     | 4.0     | 8.0    | Q3            |



TAPE AND REEL BOX DIMENSIONS



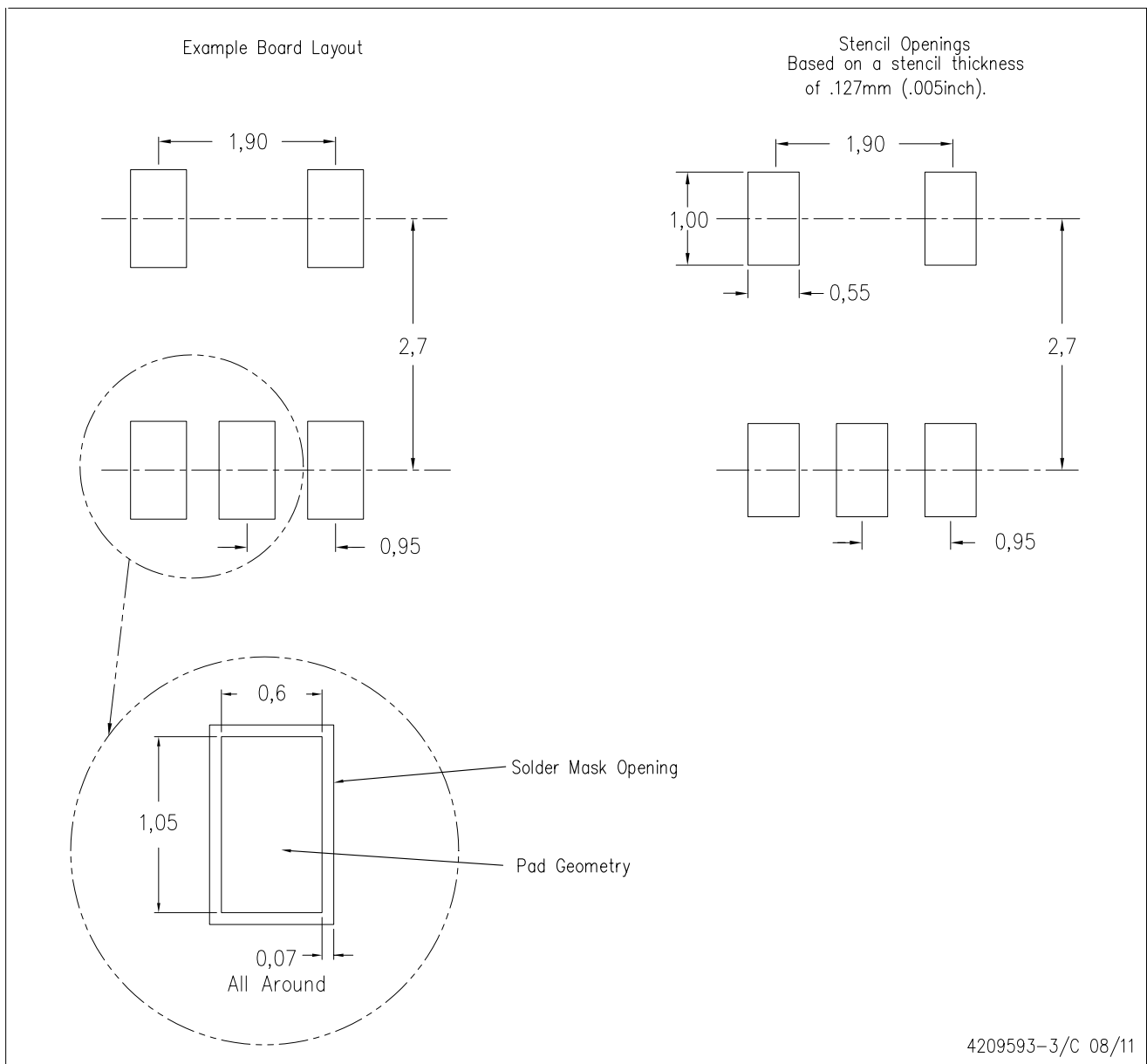
\*All dimensions are nominal

| Device           | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| CLVC1G125QDBVRQ1 | SOT-23       | DBV             | 5    | 3000 | 203.0       | 203.0      | 35.0        |



DBV (R-PDSO-G5)

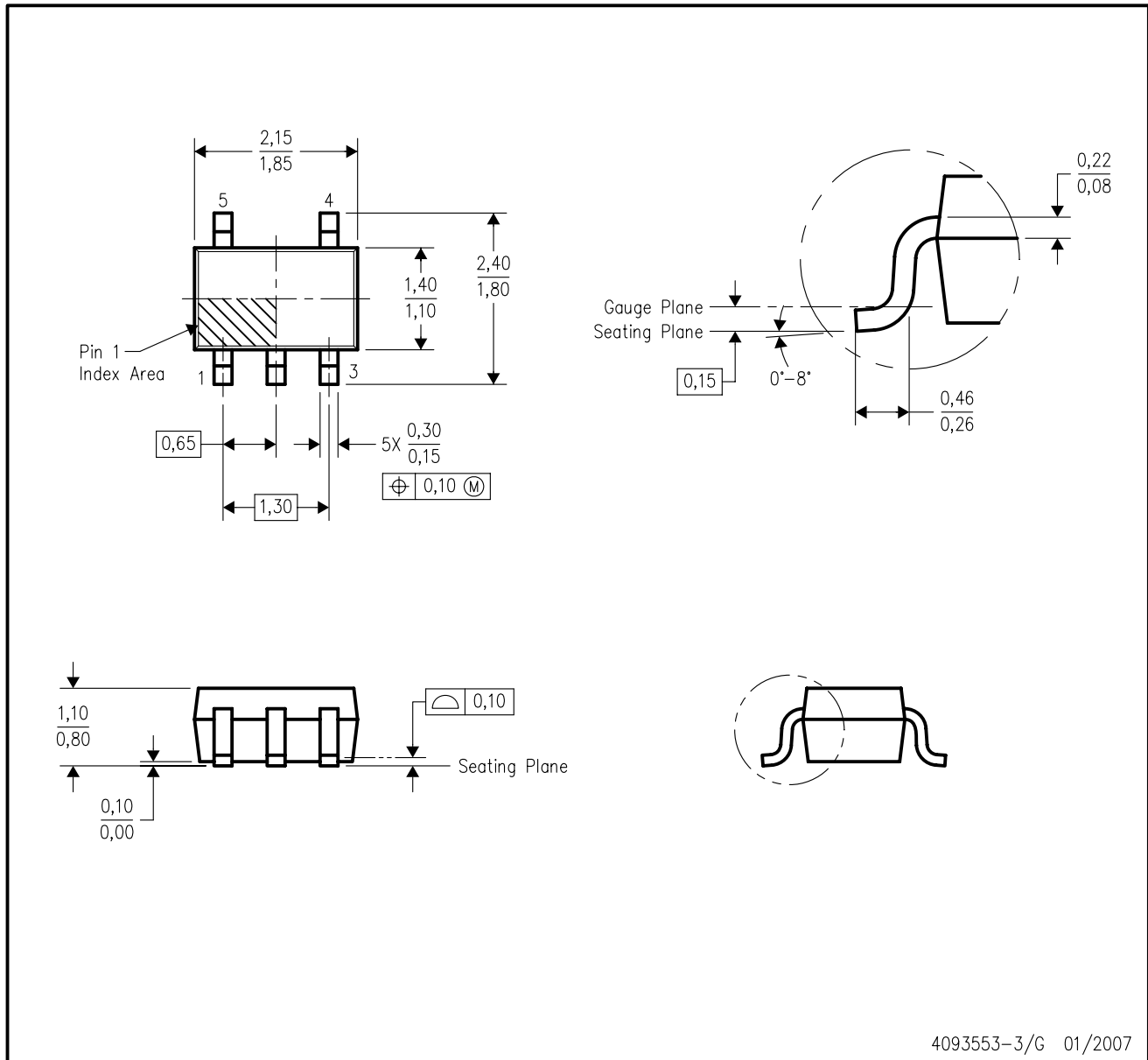
PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
  - D. Publication IPC-7351 is recommended for alternate designs.
  - E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.

DCK (R-PDSO-G5)

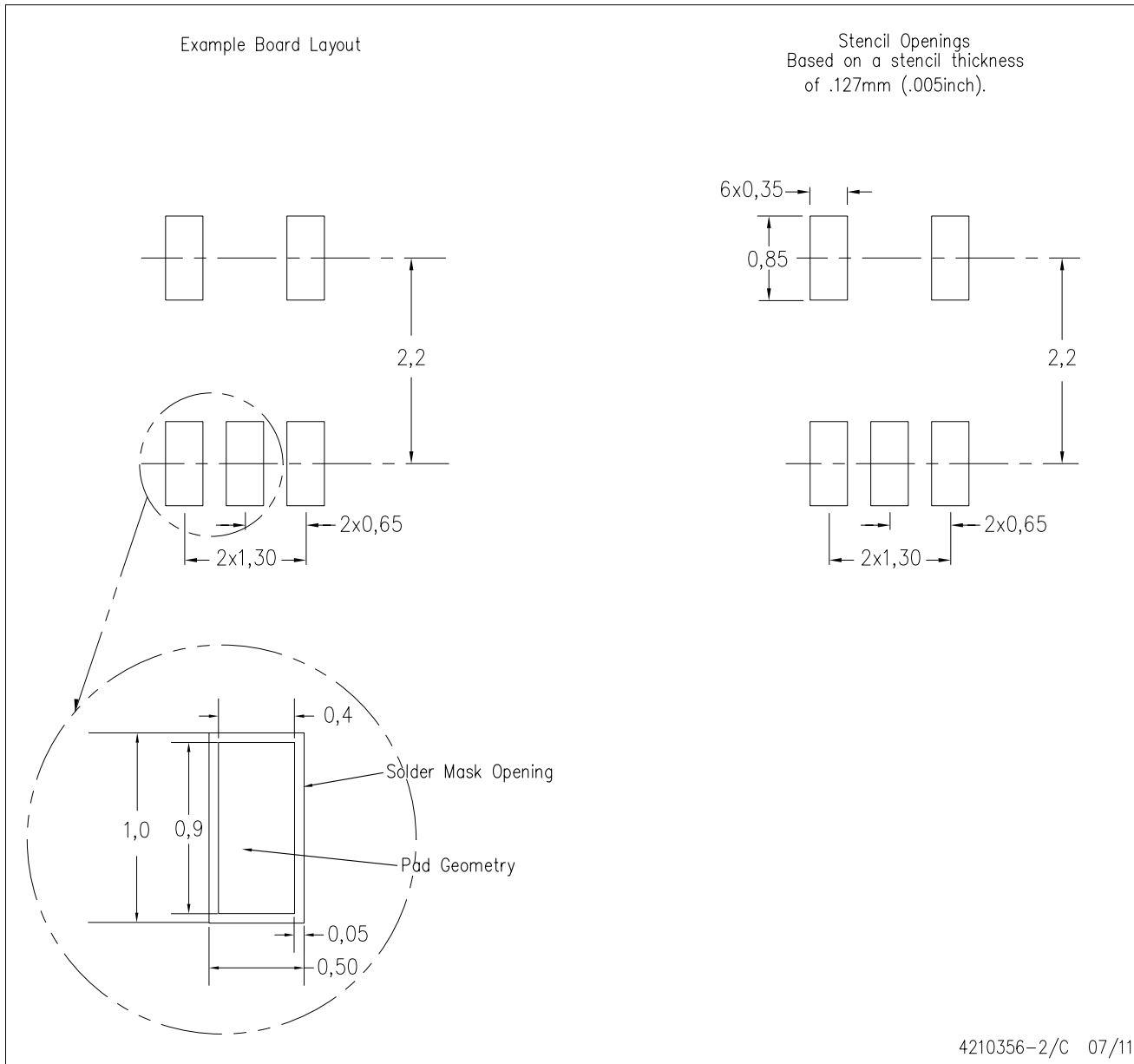
PLASTIC SMALL-OUTLINE PACKAGE



- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
  - D. Falls within JEDEC MO-203 variation AA.

DCK (R-PDSO-G5)

PLASTIC SMALL OUTLINE



- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
  - D. Publication IPC-7351 is recommended for alternate designs.
  - E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.

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|                              |  |
|------------------------------|--|
| Audio                        | <a href="http://www.ti.com/audio">www.ti.com/audio</a>                               |
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| DLP® Products                | <a href="http://www.dlp.com">www.dlp.com</a>   |
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| Clocks and Timers            | <a href="http://www.ti.com/clocks">www.ti.com/clocks</a>                             |
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| Power Mgmt                   | <a href="http://power.ti.com">power.ti.com</a>                                       |
| Microcontrollers             | <a href="http://microcontroller.ti.com">microcontroller.ti.com</a>                   |
| RFID                         | <a href="http://www.ti-rfid.com">www.ti-rfid.com</a>                                 |
| OMAP Applications Processors | <a href="http://www.ti.com/omap">www.ti.com/omap</a>                                 |
| Wireless Connectivity        | <a href="http://www.ti.com/wirelessconnectivity">www.ti.com/wirelessconnectivity</a> |

### Applications

|                               |  |
|-------------------------------|--|
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| Computers and Peripherals     | <a href="http://www.ti.com/computers">www.ti.com/computers</a>                           |
| Consumer Electronics          | <a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>                   |
| Energy and Lighting           | <a href="http://www.ti.com/energy">www.ti.com/energy</a>                                 |
| Industrial                    | <a href="http://www.ti.com/industrial">www.ti.com/industrial</a>                         |
| Medical                       | <a href="http://www.ti.com/medical">www.ti.com/medical</a>                               |
| Security                      | <a href="http://www.ti.com/security">www.ti.com/security</a>                             |
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| Video and Imaging             | <a href="http://www.ti.com/video">www.ti.com/video</a>                                   |

### TI E2E Community

[e2e.ti.com](http://e2e.ti.com)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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