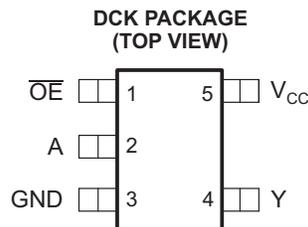


## FEATURES

- **Controlled Baseline**
  - One Assembly Site
  - One Test Site
  - One Fabrication Site
- **Extended Temperature Performance of –55°C to 125°C**
- **Enhanced Diminishing Manufacturing Sources (DMS) Support**
- **Enhanced Product-Change Notification**
- **Qualification Pedigree <sup>(1)</sup>**
- **Optimized for 1.8-V Operation and Is 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation**
- **I<sub>off</sub> Supports Partial-Power-Down Mode Operation**
- **Sub-1-V Operable**
- **Max t<sub>pd</sub> of 2.5 ns at 1.8 V**
- **Low Power Consumption, 10-μA Max I<sub>CC</sub>**
- **±8-mA Output Drive at 1.8 V**
- **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)

(1) Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such qualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.



See mechanical drawings for dimensions.

## DESCRIPTION/ORDERING INFORMATION

The SN74AUC1G125 is operational at 0.8-V to 2.7-V V<sub>CC</sub>, but is designed specifically for 1.65-V to 1.95-V V<sub>CC</sub> operation.

The SN74AUC1G125 is a single-line driver with a 3-state output. The output is disabled when the output-enable ( $\overline{\text{OE}}$ ) input is high.

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

This device is fully specified for partial-power-down applications using I<sub>off</sub>. The I<sub>off</sub> circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.



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.

# SN74AUC1G125-EP SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUT

SCES670–MARCH 2007

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

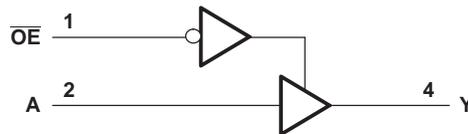
| T <sub>A</sub> | PACKAGE <sup>(2)</sup> |              | ORDERABLE PART NUMBER | TOP-SIDE MARKING <sup>(3)</sup> |
|----------------|------------------------|--------------|-----------------------|---------------------------------|
| –55°C to 125°C | SOT (SC-70) – DCK      | Reel of 3000 | CAUC1G125MDCKREP      | UM_                             |

- (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, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at [www.ti.com/sc/package](http://www.ti.com/sc/package).
- (3) The actual top-side marking has one additional character that designates the assembly/test site.

## FUNCTION TABLE

| INPUTS                 |   | OUTPUT<br>Y |
|------------------------|---|-------------|
| $\overline{\text{OE}}$ | 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 <sub>CC</sub>  | Supply voltage range  | –0.5                 | 3.6                   | V    |
| V <sub>I</sub>   | Input voltage range <sup>(2)</sup>  | –0.5                 | 3.6                   | V    |
| V <sub>O</sub>   | Voltage range applied to any output in the high-impedance or power-off state <sup>(2)</sup> | –0.5                 | 3.6                   | V    |
| V <sub>O</sub>   | Output voltage range <sup>(2)</sup>   | –0.5                 | V <sub>CC</sub> + 0.5 | V    |
| I <sub>IK</sub>  | Input clamp current   | V <sub>I</sub> < 0 V |                       | –50  |
| I <sub>OK</sub>  | Output clamp current  | V <sub>O</sub> < 0 V |                       | –50  |
| I <sub>O</sub>   | Continuous output current   |                      |                       | ±20  |
|                  | Continuous current through V <sub>CC</sub> or GND   |                      |                       | ±100 |
| θ <sub>JA</sub>  | Package thermal impedance <sup>(3)</sup>  |                      |                       | 252  |
| T <sub>stg</sub> | 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 negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.
- (3) The package thermal impedance is calculated in accordance with JESD 51-7.

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

|                 |                          | MIN                               | MAX                    | UNIT |
|-----------------|--------------------------|-----------------------------------|------------------------|------|
| V <sub>CC</sub> | Supply voltage           | 0.8                               | 2.7                    | V    |
| V <sub>IH</sub> | High-level input voltage | V <sub>CC</sub> = 0.8 V           | V <sub>CC</sub>        | V    |
|                 |                          | V <sub>CC</sub> = 1.1 V to 1.95 V | 0.65 × V <sub>CC</sub> |      |
|                 |                          | V <sub>CC</sub> = 2.3 V to 2.7 V  | 1.7                    |      |

- (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.

**Recommended Operating Conditions (continued)**

|                 |                                    | MIN                                | MAX                    | UNIT |
|-----------------|------------------------------------|------------------------------------|------------------------|------|
| V <sub>IL</sub> | Low-level input voltage            | V <sub>CC</sub> = 0.8 V            | 0                      | V    |
|                 |                                    | V <sub>CC</sub> = 1.1 V to 1.95 V  | 0.35 × V <sub>CC</sub> |      |
|                 |                                    | V <sub>CC</sub> = 2.3 V to 2.7 V   | 0.7                    |      |
| V <sub>I</sub>  | Input voltage                      | 0                                  | 3.6                    | 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> = 0.8 V            | –0.7                   | mA   |
|                 |                                    | V <sub>CC</sub> = 1.1 V            | –3                     |      |
|                 |                                    | V <sub>CC</sub> = 1.4 V            | –5                     |      |
|                 |                                    | V <sub>CC</sub> = 1.65 V           | –8                     |      |
|                 |                                    | V <sub>CC</sub> = 2.3 V            | –9                     |      |
| I <sub>OL</sub> | Low-level output current           | V <sub>CC</sub> = 0.8 V            | 0.7                    | mA   |
|                 |                                    | V <sub>CC</sub> = 1.1 V            | 3                      |      |
|                 |                                    | V <sub>CC</sub> = 1.4 V            | 5                      |      |
|                 |                                    | V <sub>CC</sub> = 1.65 V           | 8                      |      |
|                 |                                    | V <sub>CC</sub> = 2.3 V            | 9                      |      |
| Δt/Δv           | Input transition rise or fall rate | V <sub>CC</sub> = 0.8 V to 1.6 V   | 20                     | ns/V |
|                 |                                    | V <sub>CC</sub> = 1.65 V to 1.95 V | 10                     |      |
|                 |                                    | V <sub>CC</sub> = 2.3 V to 2.7 V   | 3                      |      |
| T <sub>A</sub>  | Operating free-air temperature     | –55                                | 125                    | °C   |

# SN74AUC1G125-EP

## SINGLE BUS BUFFER GATE

### WITH 3-STATE OUTPUT

SCES670–MARCH 2007

### 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                                   | 0.8 V to 2.7 V  | V <sub>CC</sub> - 0.1 |                    |      | V    |
|                  |                            | I <sub>OH</sub> = -0.7 mA                                   | 0.8 V           | 0.55                  |                    |      |      |
|                  |                            | I <sub>OH</sub> = -3 mA                                     | 1.1 V           | 0.8                   |                    |      |      |
|                  |                            | I <sub>OH</sub> = -5 mA                                     | 1.4 V           | 1                     |                    |      |      |
|                  |                            | I <sub>OH</sub> = -8 mA                                     | 1.65 V          | 1.2                   |                    |      |      |
|                  |                            | I <sub>OH</sub> = -9 mA                                     | 2.3 V           | 1.8                   |                    |      |      |
| V <sub>OL</sub>  |                            | I <sub>OL</sub> = 100 μA                                    | 0.8 V to 2.7 V  |                       |                    | 0.2  | V    |
|                  |                            | I <sub>OL</sub> = 0.7 mA                                    | 0.8 V           | 0.25                  |                    |      |      |
|                  |                            | I <sub>OL</sub> = 3 mA                                      | 1.1 V           |                       |                    | 0.3  |      |
|                  |                            | I <sub>OL</sub> = 5 mA                                      | 1.4 V           |                       |                    | 0.4  |      |
|                  |                            | I <sub>OL</sub> = 8 mA                                      | 1.65 V          |                       |                    | 0.45 |      |
|                  |                            | I <sub>OL</sub> = 9 mA                                      | 2.3 V           |                       |                    | 0.6  |      |
| I <sub>I</sub>   | A or $\overline{OE}$ input | V <sub>I</sub> = V <sub>CC</sub> or GND                     | 0 V to 2.7 V    |                       |                    | ±5   | μA   |
| I <sub>off</sub> |                            | V <sub>I</sub> or V <sub>O</sub> = 2.7 V                    | 0 V             |                       |                    | ±10  | μA   |
| I <sub>OZ</sub>  |                            | V <sub>O</sub> = V <sub>CC</sub> or GND                     | 2.7 V           |                       |                    | ±10  | μA   |
| I <sub>CC</sub>  |                            | V <sub>I</sub> = V <sub>CC</sub> or GND, I <sub>O</sub> = 0 | 0.8 V to 2.7 V  |                       |                    | 10   | μA   |
| C <sub>I</sub>   |                            | V <sub>I</sub> = V <sub>CC</sub> or GND                     | 2.5 V           | 2.5                   |                    |      | pF   |
| C <sub>O</sub>   |                            | V <sub>O</sub> = V <sub>CC</sub> or GND                     | 2.5 V           | 5.5                   |                    |      | pF   |

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

### Switching Characteristics

over recommended operating free-air temperature range, C<sub>L</sub> = 30 pF (unless otherwise noted) (see Figure 1)

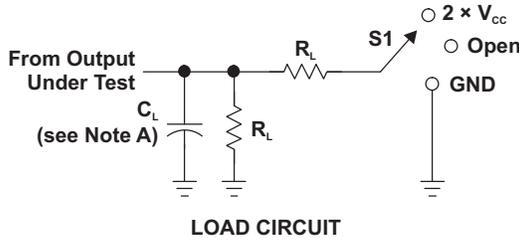
| PARAMETER        | FROM (INPUT)    | TO (OUTPUT) | V <sub>CC</sub> = 0.8 V |     | V <sub>CC</sub> = 1.2 V ± 0.1 V |     | V <sub>CC</sub> = 1.5 V ± 0.1 V |     | V <sub>CC</sub> = 1.8 V ± 0.15 V |     |     | V <sub>CC</sub> = 2.5 V ± 0.2 V |    | UNIT |
|------------------|-----------------|-------------|-------------------------|-----|---------------------------------|-----|---------------------------------|-----|----------------------------------|-----|-----|---------------------------------|----|------|
|                  |                 |             | TYP                     | MIN | MAX                             | MIN | MAX                             | MIN | TYP                              | MAX | MIN | MAX                             |    |      |
| t <sub>pd</sub>  | A               | Y           | 4.7                     | 0.8 | 7.5                             | 0.4 | 6                               | 0.7 | 5                                | 5.5 | 0.9 | 5                               | ns |      |
| t <sub>en</sub>  | $\overline{OE}$ | Y           | 5.4                     | 0.7 | 7.8                             | 0.5 | 7                               | 1   | 5.5                              | 6.5 | 1.1 | 5                               | ns |      |
| t <sub>dis</sub> | $\overline{OE}$ | Y           | 4.8                     | 1.4 | 8.3                             | 1.4 | 7                               | 1.8 | 6                                | 6.8 | 0.8 | 6                               | ns |      |

### Operating Characteristics

T<sub>A</sub> = 25°C

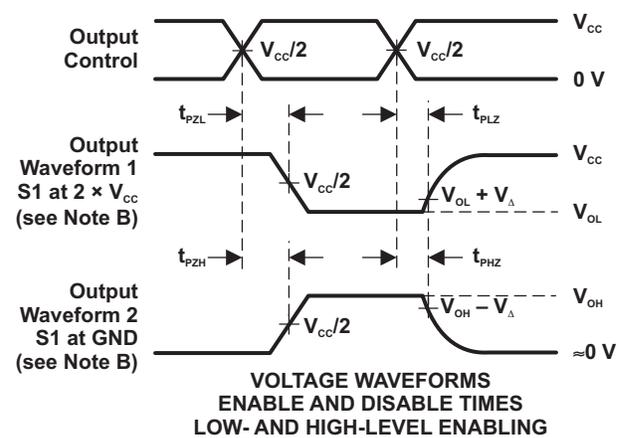
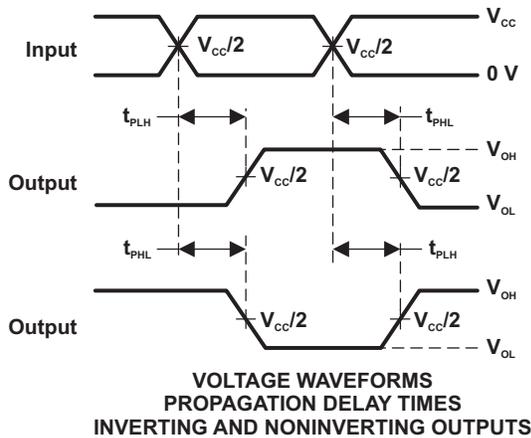
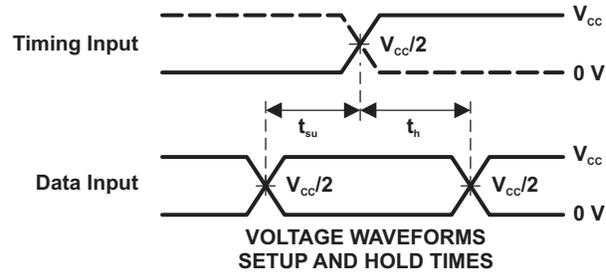
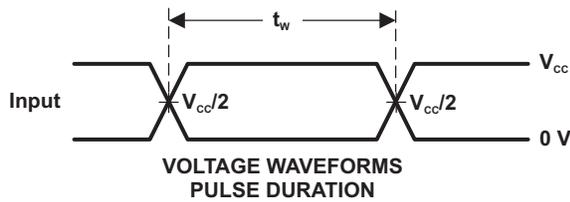
| PARAMETER       |                               | TEST CONDITIONS               | V <sub>CC</sub> = 0.8 V | V <sub>CC</sub> = 1.2 V | V <sub>CC</sub> = 1.5 V | V <sub>CC</sub> = 1.8 V | V <sub>CC</sub> = 2.5 V | UNIT |
|-----------------|-------------------------------|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------|
|                 |                               |                               | TYP                     | TYP                     | TYP                     | TYP                     | TYP                     |      |
| C <sub>pd</sub> | Power dissipation capacitance | Outputs enabled<br>f = 10 MHz | 14                      | 14                      | 14                      | 15                      | 16                      | pF   |
|                 |                               |                               | Outputs disabled        | 1.5                     | 1.5                     | 1.5                     | 2                       |      |

PARAMETER MEASUREMENT INFORMATION



| TEST              | S1                |
|-------------------|-------------------|
| $t_{PLH}/t_{PHL}$ | Open              |
| $t_{PZL}/t_{PZH}$ | $2 \times V_{CC}$ |
| $t_{PHZ}/t_{PZH}$ | GND               |

| $V_{CC}$           | $C_L$ | $R_L$        | $V_A$  |
|--------------------|-------|--------------|--------|
| 0.8 V              | 15 pF | 2 k $\Omega$ | 0.1 V  |
| 1.2 V $\pm$ 0.1 V  | 15 pF | 2 k $\Omega$ | 0.1 V  |
| 1.5 V $\pm$ 0.1 V  | 15 pF | 2 k $\Omega$ | 0.1 V  |
| 1.8 V $\pm$ 0.15 V | 15 pF | 2 k $\Omega$ | 0.15 V |
| 2.5 V $\pm$ 0.2 V  | 15 pF | 2 k $\Omega$ | 0.15 V |
| 1.8 V $\pm$ 0.15 V | 30 pF | 1 k $\Omega$ | 0.15 V |
| 2.5 V $\pm$ 0.2 V  | 30 pF | 500 $\Omega$ | 0.15 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 MHz,  $Z_o = 50 \Omega$ , slew rate  $\geq$  1 V/ns.  
 D. The outputs are measured one at a time, with one transition per measurement.  
 E.  $t_{PZL}$  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  $t_{pd}$ .

Figure 1. Load Circuit and Voltage Waveforms

**PACKAGING INFORMATION**

| Orderable Device | Status <sup>(1)</sup> | Package Type | Package Drawing | Pins | Package Qty | Eco Plan <sup>(2)</sup> | Lead/Ball Finish | MSL Peak Temp <sup>(3)</sup> |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|
| CAUC1G125MDCKREP | ACTIVE                | SC70         | DCK             | 5    | 3000        | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| V62/06656-01XE   | ACTIVE                | SC70         | DCK             | 5    | 3000        | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |

<sup>(1)</sup> 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.

<sup>(2)</sup> 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)

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

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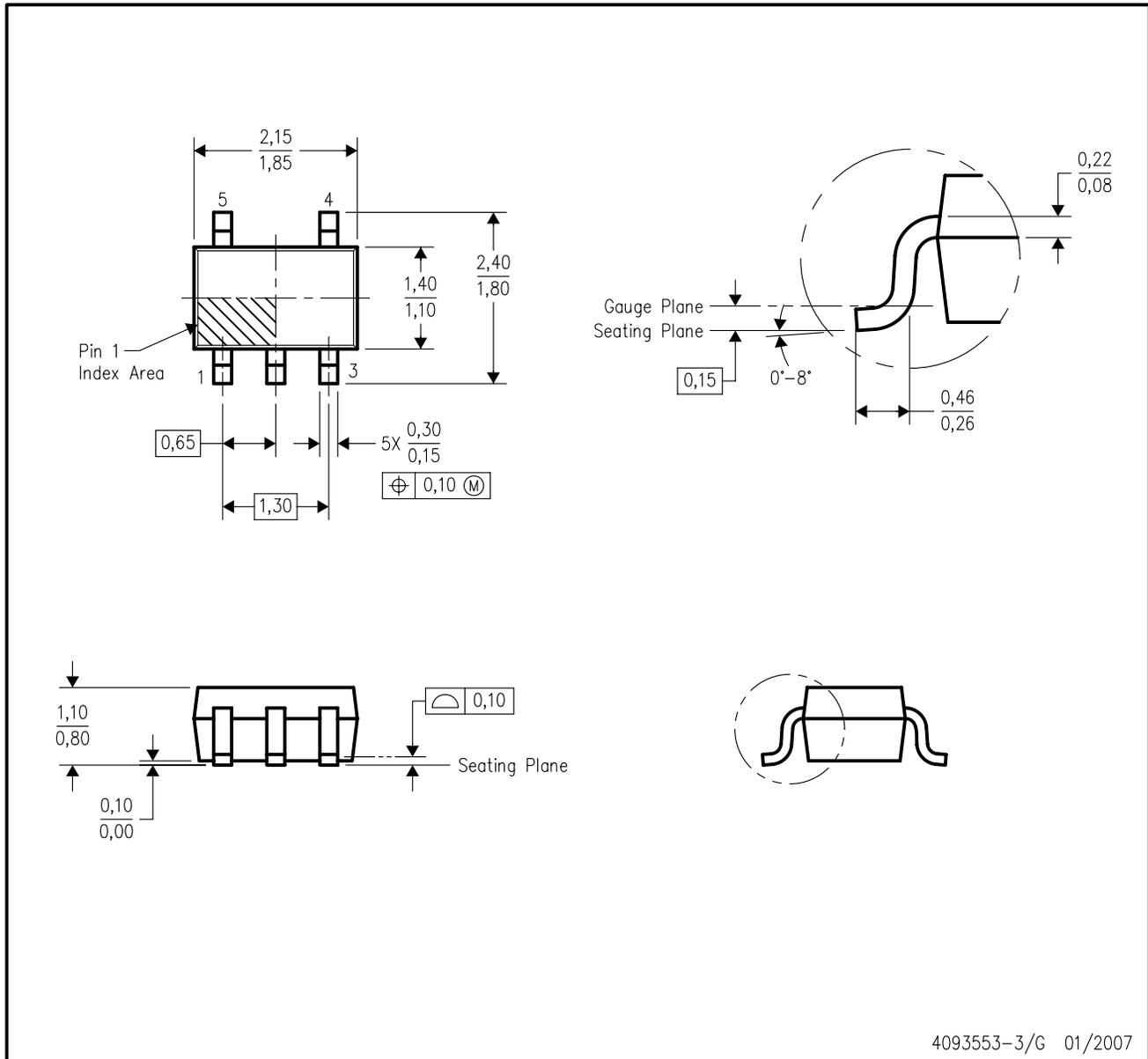
- Catalog: [SN74AUC1G125](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product

DCK (R-PDSO-G5)

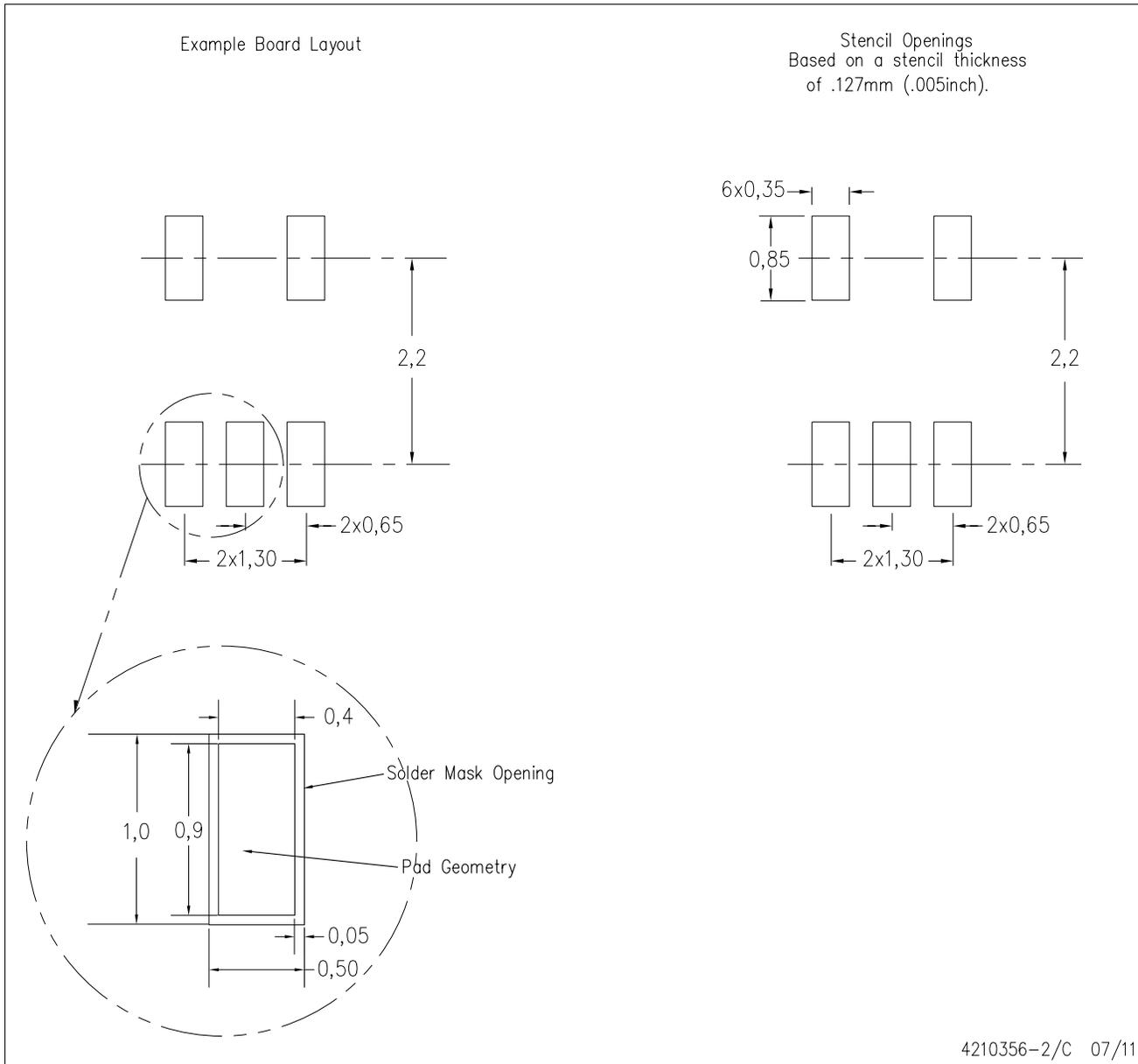
PLASTIC SMALL-OUTLINE PACKAGE



- 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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Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

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| Data Converters             | <a href="http://dataconverter.ti.com">dataconverter.ti.com</a>     |
| DLP® Products               | <a href="http://www.dlp.com">www.dlp.com</a>                       |
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| Microcontrollers            | <a href="http://microcontroller.ti.com">microcontroller.ti.com</a> |
| RFID                        | <a href="http://www.ti-rfid.com">www.ti-rfid.com</a>               |
| RF/IF and ZigBee® Solutions | <a href="http://www.ti.com/lprf">www.ti.com/lprf</a>               |

### Applications

|                               |  |
|-------------------------------|--|
| Communications and Telecom    | <a href="http://www.ti.com/communications">www.ti.com/communications</a>                 |
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| Consumer Electronics          | <a href="http://www.ti.com/consumer-apps">www.ti.com/consumer-apps</a>                   |
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