

## 双路差分线路驱动器

### 1 特性

- 符合或超出 ANSI EIA/TIA-422-B 和 ITU 建议 V.11 的要求
- 单 5V 电源
- 平衡线路运行
- TTL 兼容
- 在断电情况下具有高输出阻抗
- 高电流有源上拉输出
- 短路保护
- 双通道
- 输入钳位二极管

### 2 应用

- 工厂自动化
- ATM 和点钞机
- 智能电网
- 交流和伺服电机驱动器

### 3 说明

SN75158 是一款双路差分线路驱动器，符合 ANSI EIA/TIA-422-B 和 ITU V.11 接口规范所设定的要求。输出提供具有高电流能力的信号，用于驱动具有正常线路阻抗的平衡线路（例如双绞线），而不会产生高功率耗散。此输出级为 TTL 图腾柱输出，在断电情况下提供高阻抗状态。

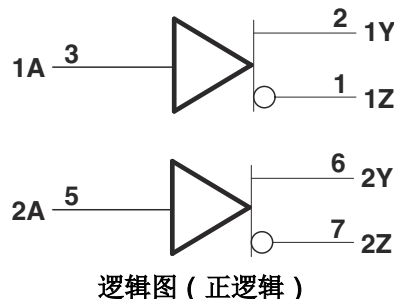
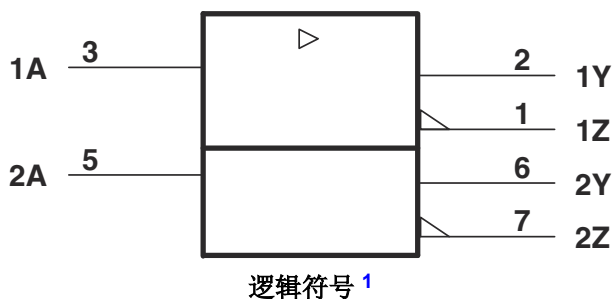
SN75158 的工作温度范围是 0°C 至 70°C。

#### 封装信息

| 器件型号    | 封装 <sup>(1)</sup> | 封装尺寸 <sup>(2)</sup> |
|---------|-------------------|---------------------|
| SN75158 | SOIC ( D , 8 )    | 4.9mm × 6mm         |
|         | PDIP ( P , 8 )    | 9.81mm × 9.43mm     |
|         | SOP ( PS , 8 )    | 6.2mm × 7.8mm       |

(1) 有关更多信息，请参阅节 8。

(2) 封装尺寸（长 × 宽）为标称值，并包括引脚（如适用）。



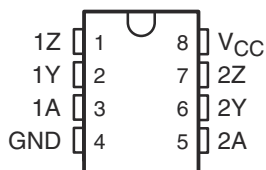
<sup>1</sup> 此符号符合 ANSI/IEEE 标准 91-1984 和 IEC 出版物 617-12。



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## 4 Pin Configuration and Functions



**图 4-1. D, P, OR PS Package  
(Top View)**

**表 4-1. Pin Functions**

| PIN             |     | TYPE <sup>(1)</sup> | DESCRIPTION                                               |
|-----------------|-----|---------------------|-----------------------------------------------------------|
| NAME            | NO. |                     |                                                           |
| 1Z              | 1   | O                   | Inverting Output of Differential Driver on Channel 1      |
| 1Y              | 2   | O                   | Non-Inverting Output for Differential Driver on Channel 1 |
| 1A              | 3   | I                   | Single Ended Data Input for Channel 1                     |
| GND             | 4   | GND                 | Device Ground                                             |
| 2A              | 5   | I                   | Single Ended Data Input for Channel 2                     |
| 2Y              | 6   | O                   | Non-Inverting Output for Differential Driver on Channel 2 |
| 2Z              | 7   | O                   | Inverting Output of Differential Driver on Channel 2      |
| V <sub>CC</sub> | 8   | P                   | 5V Power Supply Positive Terminal Connection              |

(1) Signal Types: I = Input, O = Output, I/O = Input or Output, P = Power, GND = Ground.

## 5 Specifications

### 5.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted) <sup>(1)</sup>

|                  |                                                        | MIN                                     | MAX | UNIT |
|------------------|--------------------------------------------------------|-----------------------------------------|-----|------|
| V <sub>CC</sub>  | Supply voltage <sup>(2)</sup>                          |                                         | 7   | V    |
| V <sub>I</sub>   | Input voltage range                                    |                                         | 5.5 | V    |
|                  | Continuous total power dissipation                     | See <a href="#">Dissipation Ratings</a> |     |      |
| T <sub>J</sub>   | Operating free-air temperature range                   | 0                                       | 70  | °C   |
| T <sub>stg</sub> | Storage temperature range                              | – 65                                    | 150 | °C   |
|                  | Lead temperature 1,6 mm (1/16 inch) from case for 10 s |                                         | 260 | °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) All voltage values, except differential input voltage, are with respect to the network ground terminal.
- (3) Differential input voltage is measured at the noninverting input with respect to the corresponding inverting input.

### 5.2 Dissipation Ratings

| PACKAGE | TA ≤ 25°C<br>POWER RATING | OPERATING FACTOR<br>ABOVE TA = 25°C | TA ≤ 70°C<br>POWER RATING |
|---------|---------------------------|-------------------------------------|---------------------------|
| D       | 725 mW                    | 5.8 mW/°C                           | 464 mW                    |
| P       | 1000 mW                   | 8.0 mW/°C                           | 640 mW                    |
| PS      | 450 mW                    | 3.6 mW/°C                           | 288 mW                    |

### 5.3 Recommended Operating Conditions

|                 |                                | MIN  | NOM | MAX  | UNIT |
|-----------------|--------------------------------|------|-----|------|------|
| V <sub>CC</sub> | Supply voltage                 | 4.75 | 5   | 5.25 | V    |
| V <sub>IH</sub> | High-level input voltage       | 2    |     |      | V    |
| V <sub>IL</sub> | Low-level input voltage        |      |     | 0.8  | V    |
| I <sub>OH</sub> | High-level output current      |      |     | – 40 | mA   |
| I <sub>OL</sub> | Low-level output current       |      |     | 40   | mA   |
| T <sub>A</sub>  | Operating free-air temperature | 0    |     | 70   | °C   |

### 5.4 Thermal Information

| THERMAL METRIC <sup>(1)</sup> |                                              | D      | P    | PS   | UNIT |
|-------------------------------|----------------------------------------------|--------|------|------|------|
|                               |                                              | 8-Pins |      |      |      |
| R <sub>θJA</sub>              | Junction-to-ambient thermal resistance       | 116.7  | 84.3 | 89.5 | °C/W |
| R <sub>θJC(top)</sub>         | Junction-to-case (top) thermal resistance    | 56.3   | 65.4 | 46.2 | °C/W |
| R <sub>θJB</sub>              | Junction-to-board thermal resistance         | 63.4   | 62.1 | 50.7 | °C/W |
| ψ <sub>JT</sub>               | Junction-to-top characterization parameter   | 8.8    | 31.3 | 23.5 | °C/W |
| ψ <sub>JB</sub>               | Junction-to-board characterization parameter | 62.6   | 60.4 | 60.3 | °C/W |
| R <sub>θJC(bot)</sub>         | Junction-to-case (bottom) thermal resistance | N/A    | N/A  | N/A  | °C/W |

- (1) For more information about traditional and new thermal metrics, see the [Semiconductor and IC package thermal metrics](#) application report.

## 5.5 Electrical Characteristics

over recommended ranges of supply voltage, common-mode input voltage, and operating free-air temperature (unless otherwise noted)

| PARAMETER         |                                                                   | TEST CONDITIONS <sup>(1)</sup>                   |                                                    | MIN | TYP <sup>(2)</sup> | MAX                  | UNIT |
|-------------------|-------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------|-----|--------------------|----------------------|------|
| V <sub>IK</sub>   | Input clamp voltage                                               | V <sub>CC</sub> = MIN,                           | I <sub>I</sub> = -12mA                             |     | -0.9               | -1.5                 | V    |
| V <sub>OH</sub>   | High-level output voltage                                         | V <sub>CC</sub> = MIN,<br>V <sub>IH</sub> = 2V,  | V <sub>IL</sub> = 0.8V,<br>I <sub>OH</sub> = -40mA | 2.4 | 3                  |                      | V    |
| V <sub>OL</sub>   | Low-level output voltage                                          | V <sub>CC</sub> = MIN,<br>V <sub>IH</sub> = 2V,  | V <sub>IL</sub> = 0.8V,<br>I <sub>OH</sub> = 40mA  |     | 0.2                | 0.4                  | V    |
| V <sub>OD1</sub>  | Differential output voltage                                       | V <sub>CC</sub> = MAX,                           | I <sub>O</sub> = 0                                 |     | 3.5                | 2 × V <sub>OD2</sub> | V    |
| V <sub>OD2</sub>  |                                                                   | V <sub>CC</sub> = MIN,                           | R <sub>L</sub> = 100Ω,<br>See 图 6-1                |     | 3                  | 3                    | V    |
| Δ V <sub>OD</sub> | Change in magnitude of differential output voltage <sup>(3)</sup> | V <sub>CC</sub> = MIN,                           | R <sub>L</sub> = 100Ω,<br>See 图 6-1                |     | ±0.02              | ±0.4                 | V    |
| V <sub>OC</sub>   | Common-mode output voltage <sup>(4)</sup>                         | V <sub>CC</sub> = MAX,                           | R <sub>L</sub> = 100Ω,                             |     | 1.8                | 3                    | V    |
|                   |                                                                   | V <sub>CC</sub> = MIN,                           | See 图 6-1                                          |     | 1.5                | 3                    |      |
| Δ V <sub>OC</sub> | Change in magnitude of common-mode output voltage <sup>(3)</sup>  | V <sub>CC</sub> = MIN or MAX,                    | R <sub>L</sub> = 100Ω,<br>See 图 6-1                |     | ±0.02              | ±0.4                 | V    |
| I <sub>O</sub>    | Output current with power off                                     | V <sub>CC</sub> = 0,                             | V <sub>O</sub> = 6V                                |     | 0.1                | 100                  | μ A  |
|                   |                                                                   |                                                  | V <sub>O</sub> = -0.25V                            |     | -0.1               | -100                 |      |
|                   |                                                                   |                                                  | V <sub>O</sub> = -0.25 to 6V                       |     |                    | ±100                 |      |
| I <sub>I</sub>    | Input current at maximum input voltage                            | V <sub>CC</sub> = MAX,                           | V <sub>I</sub> = 5.5V                              |     |                    | 1                    | mA   |
| I <sub>IH</sub>   | High-level input current                                          | V <sub>CC</sub> = MAX,                           | V <sub>I</sub> = 2.4V                              |     |                    | 40                   | μ A  |
| I <sub>IL</sub>   | Low-level input current                                           | V <sub>CC</sub> = MAX,                           | V <sub>I</sub> = 0.4V                              |     | -1                 | -1.6                 | mA   |
| I <sub>OS</sub>   | Short-circuit output current <sup>(5)</sup>                       | V <sub>CC</sub> = MAX,                           |                                                    | -40 | -90                | -150                 | mA   |
| I <sub>CC</sub>   | Supply current (both drivers)                                     | V <sub>CC</sub> = MAX,<br>T <sub>A</sub> = 25°C, | Inputs grounded,<br>No load                        |     | 37                 | 50                   | mA   |

- (1) For conditions shown as MIN or MAX, use the appropriate value specified under [Recommended Operating Conditions](#).
- (2) All typical values are at V<sub>CC</sub> = 5 V and T<sub>A</sub> = 25°C except for V<sub>OC</sub>, for which V<sub>CC</sub> is as stated under test conditions.
- (3) Δ V<sub>OD</sub> and Δ V<sub>OC</sub> are the changes in magnitudes of V<sub>OD</sub> and V<sub>OC</sub>, respectively, that occur when the input is changed from a high level to a low level.
- (4) In ANSI Standard EIA/TIA-422-B, V<sub>OC</sub>, which is the average of the two output voltages with respect to ground, is called output offset voltage, V<sub>OS</sub>.
- (5) Only one output should be shorted at a time, and duration of the short circuit should not exceed one second.

## 5.6 Switching Characteristics

V<sub>CC</sub> = 5V, T<sub>A</sub> = 25°C

| PARAMETER        |                                                   | TEST CONDITIONS |               | MIN | TYP | MAX | UNIT |
|------------------|---------------------------------------------------|-----------------|---------------|-----|-----|-----|------|
| t <sub>PLH</sub> | Propagation delay time, low- to high-level output | See 图 6-2       | Termination A |     | 16  | 25  | ns   |
|                  |                                                   |                 | Termination B |     | 13  | 20  |      |
| t <sub>PHL</sub> | Propagation delay time, high- to low-level output | See 图 6-2       | Termination A |     | 10  | 20  | ns   |
|                  |                                                   |                 | Termination B |     | 9   | 15  |      |
| t <sub>TLH</sub> | Transition time, low-to-high-level output         | See 图 6-2       | Termination A |     | 4   | 20  | ns   |
| t <sub>THL</sub> | Transition time, high- to low-level output        | See 图 6-2       | Termination A |     | 4   | 20  | ns   |
| Overshoot factor |                                                   | See 图 6-2       | Termination C |     |     | 10  | %    |

## 5.7 Typical Characteristics

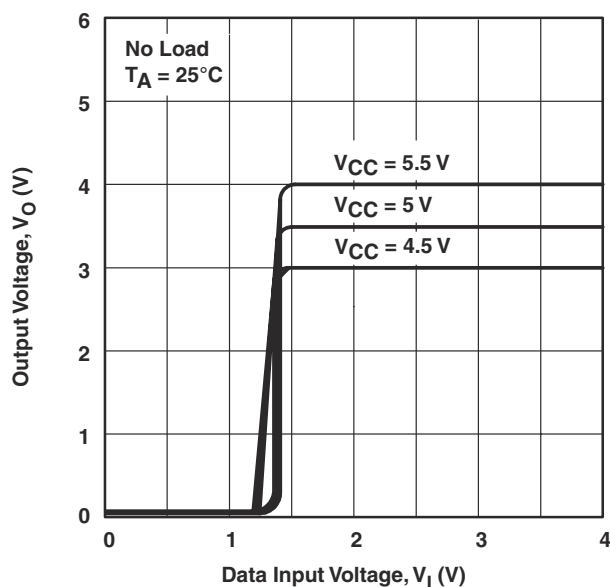


图 5-1. Output Voltage vs Data Input Voltage

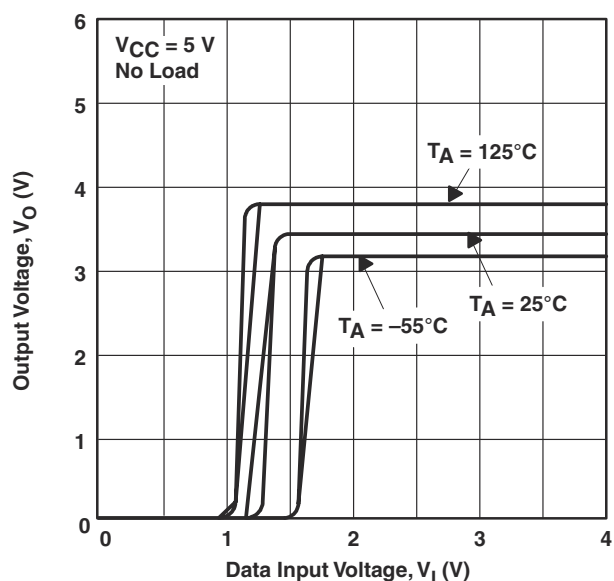


图 5-2. Output Voltage vs DATA Input Voltage

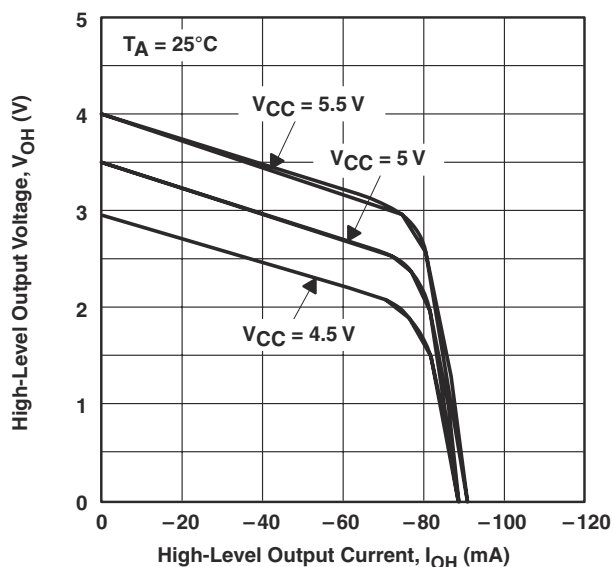


图 5-3. High-Level Output Voltage vs High-Level Output Current

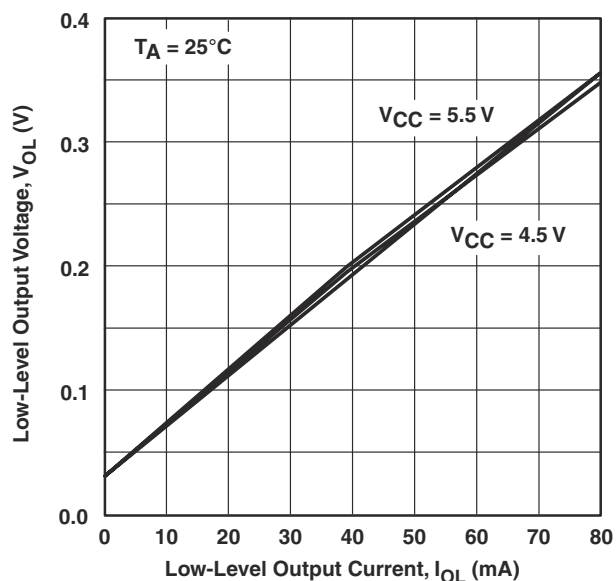


图 5-4. Low-Level Output Voltage vs Low-Level Output Current

## 5.7 Typical Characteristics (continued)

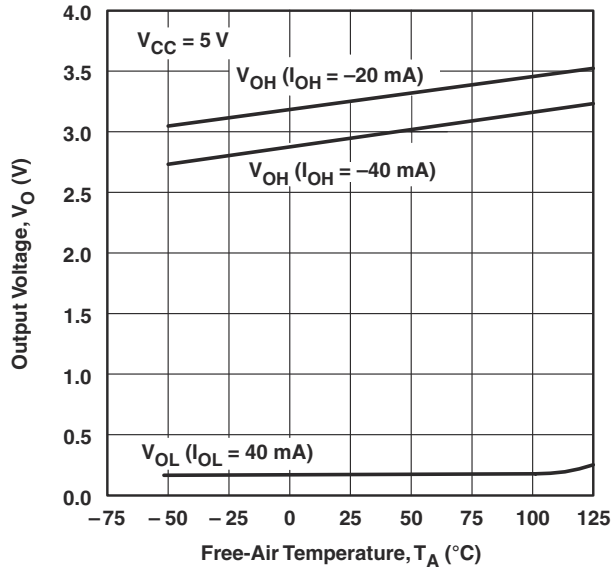


图 5-5. Output Voltage vs Free-Air Temperature

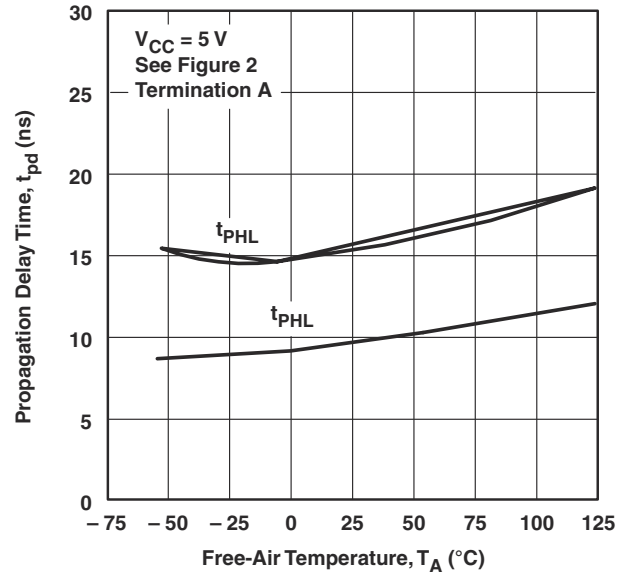


图 5-6. Propagation Delay Times vs Free-Air Temperature

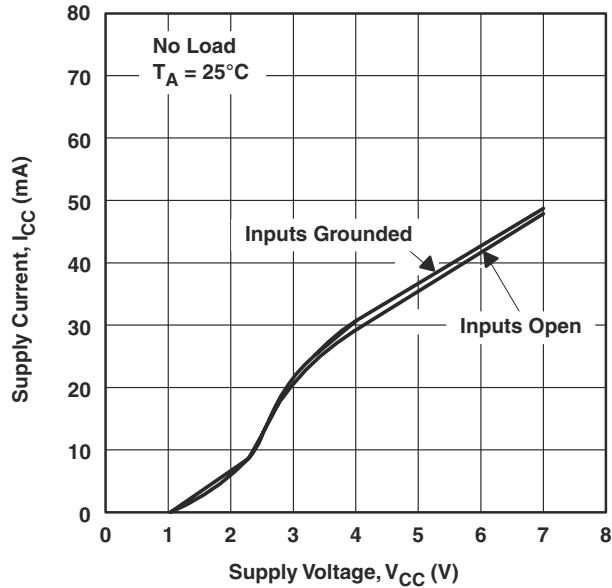


图 5-7. Supply Current(Both Drivers) vs Supply Voltage

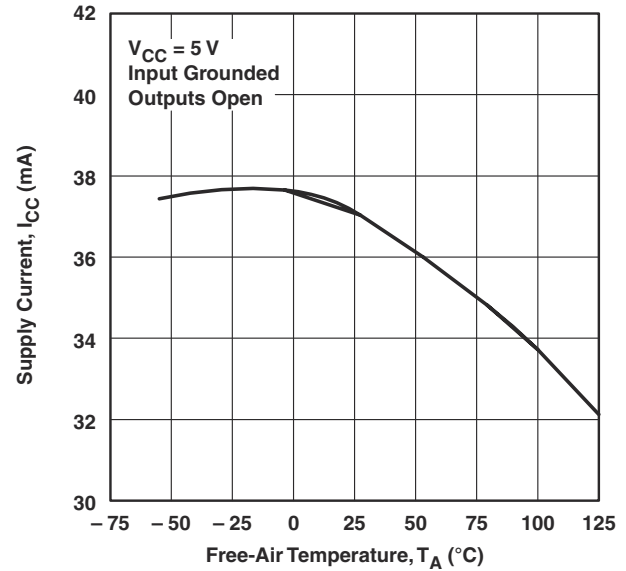


图 5-8. Supply Current(Both Drivers) vs Free-Air Temperature

## 5.7 Typical Characteristics (continued)

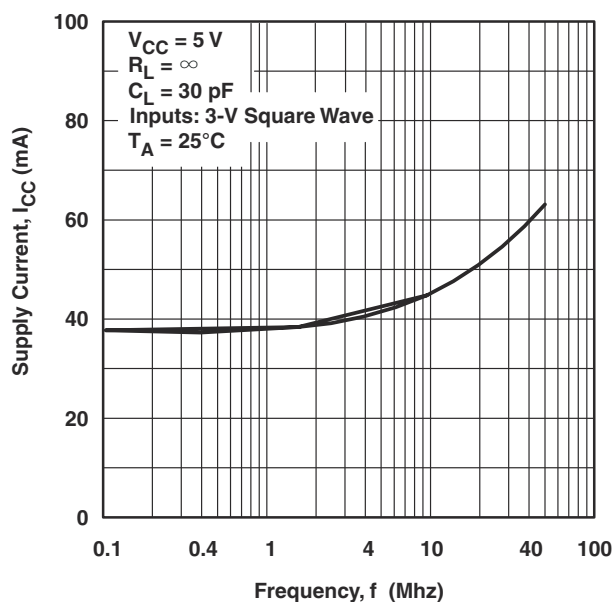


图 5-9. Supply Current(Both Drivers) vs Frequency



## Parameter Measurement Information

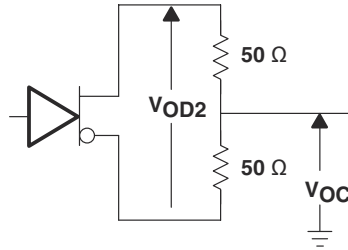
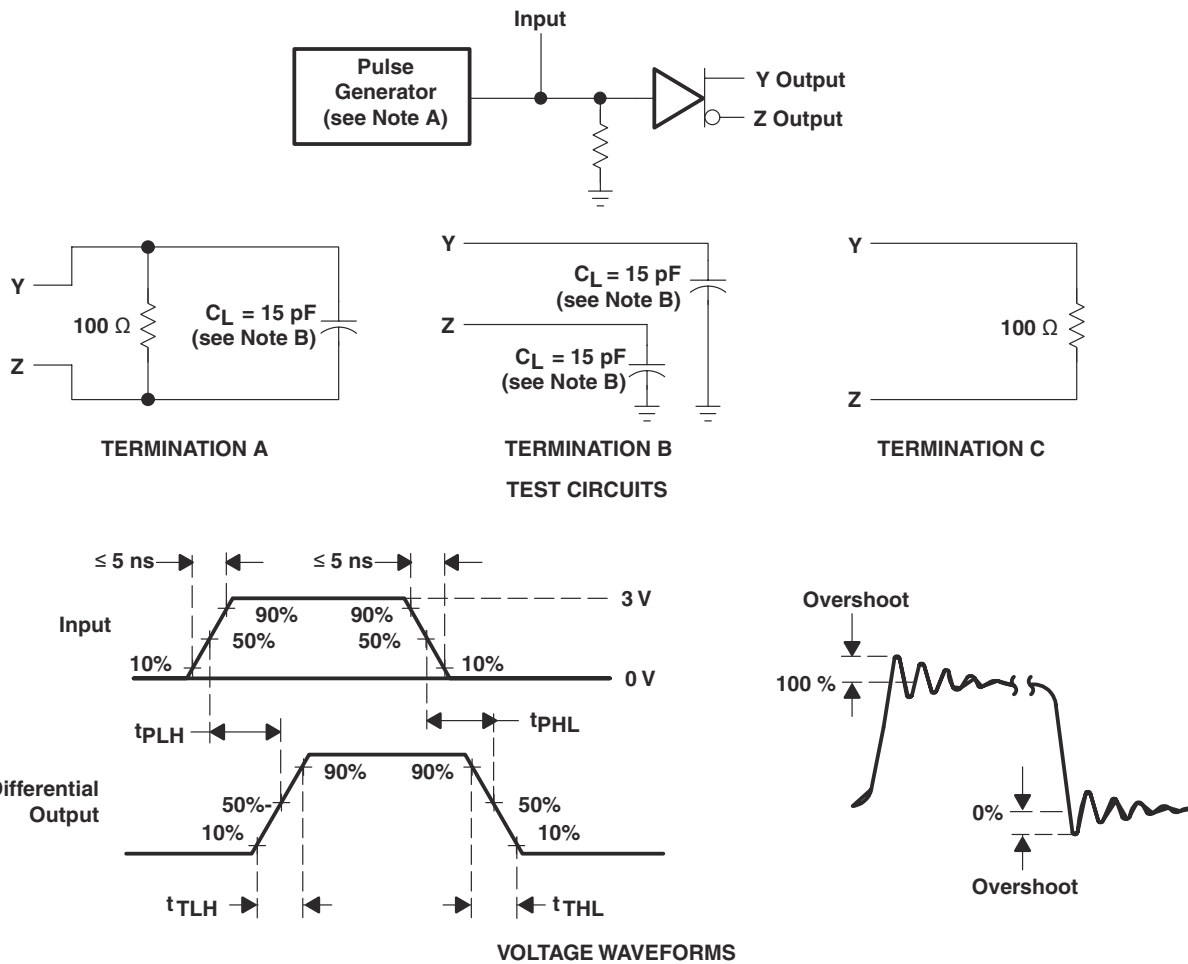


图 6-1. Differential and Common-Mode Output Voltages



- A. The input pulse is supplied by a generator having the following characteristics:  $Z_O = 50 \Omega$ ,  $t_w = 25 \text{ ns}$ ,  $\text{PRR} \leq 10 \text{ MHz}$ .
- B.  $C_L$  includes probe and jig capacitance.

图 6-2. Test Circuit and Voltage Waveforms

## 6 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

### 6.1 接收文档更新通知

要接收文档更新通知，请导航至 [ti.com](https://ti.com) 上的器件产品文件夹。点击 [通知](#) 进行注册，即可每周接收产品信息更改摘要。有关更改的详细信息，请查看任何已修订文档中包含的修订历史记录。

### 6.2 支持资源

**TI E2E™ 中文支持论坛** 是工程师的重要参考资料，可直接从专家处获得快速、经过验证的解答和设计帮助。搜索现有解答或提出自己的问题，获得所需的快速设计帮助。

链接的内容由各个贡献者“按原样”提供。这些内容并不构成 TI 技术规范，并且不一定反映 TI 的观点；请参阅 TI 的 [使用条款](#)。

### 6.3 商标

TI E2E™ is a trademark of Texas Instruments.

所有商标均为其各自所有者的财产。

### 6.4 静电放电警告



静电放电 (ESD) 会损坏这个集成电路。德州仪器 (TI) 建议通过适当的预防措施处理所有集成电路。如果不遵守正确的处理和安装程序，可能会损坏集成电路。

ESD 的损坏小至导致微小的性能降级，大至整个器件故障。精密的集成电路可能更容易受到损坏，这是因为非常细微的参数更改都可能会导致器件与其发布的规格不相符。

### 6.5 术语表

#### TI 术语表

本术语表列出并解释了术语、首字母缩略词和定义。

## 7 Revision History

注：以前版本的页码可能与当前版本的页码不同

| Changes from Revision B (May 1995) to Revision C (March 2024) | Page |
|---------------------------------------------------------------|------|
| • 更改了整个文档中的表格、图和交叉参考的编号格式.....                                | 1    |

## 8 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

## PACKAGING INFORMATION

| Orderable part number      | Status<br>(1) | Material type<br>(2) | Package   Pins | Package qty   Carrier | RoHS<br>(3) | Lead finish/<br>Ball material<br>(4) | MSL rating/<br>Peak reflow<br>(5) | Op temp (°C) | Part marking<br>(6) |
|----------------------------|---------------|----------------------|----------------|-----------------------|-------------|--------------------------------------|-----------------------------------|--------------|---------------------|
| <a href="#">SN75158D</a>   | Obsolete      | Production           | SOIC (D)   8   | -                     | -           | Call TI                              | Call TI                           | 0 to 70      | 75158               |
| <a href="#">SN75158DR</a>  | Active        | Production           | SOIC (D)   8   | 2500   LARGE T&R      | Yes         | NIPDAU                               | Level-1-260C-UNLIM                | 0 to 70      | 75158               |
| SN75158DR.A                | Active        | Production           | SOIC (D)   8   | 2500   LARGE T&R      | Yes         | NIPDAU                               | Level-1-260C-UNLIM                | 0 to 70      | 75158               |
| <a href="#">SN75158P</a>   | Active        | Production           | PDIP (P)   8   | 50   TUBE             | Yes         | NIPDAU                               | N/A for Pkg Type                  | 0 to 70      | SN75158P            |
| SN75158P.A                 | Active        | Production           | PDIP (P)   8   | 50   TUBE             | Yes         | NIPDAU                               | N/A for Pkg Type                  | 0 to 70      | SN75158P            |
| <a href="#">SN75158PSR</a> | Active        | Production           | SO (PS)   8    | 2000   LARGE T&R      | Yes         | NIPDAU                               | Level-1-260C-UNLIM                | 0 to 70      | A158                |
| SN75158PSR.A               | Active        | Production           | SO (PS)   8    | 2000   LARGE T&R      | Yes         | NIPDAU                               | Level-1-260C-UNLIM                | 0 to 70      | A158                |

<sup>(1)</sup> **Status:** For more details on status, see our [product life cycle](#).

<sup>(2)</sup> **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

<sup>(3)</sup> **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

<sup>(4)</sup> **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

<sup>(5)</sup> **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

<sup>(6)</sup> **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

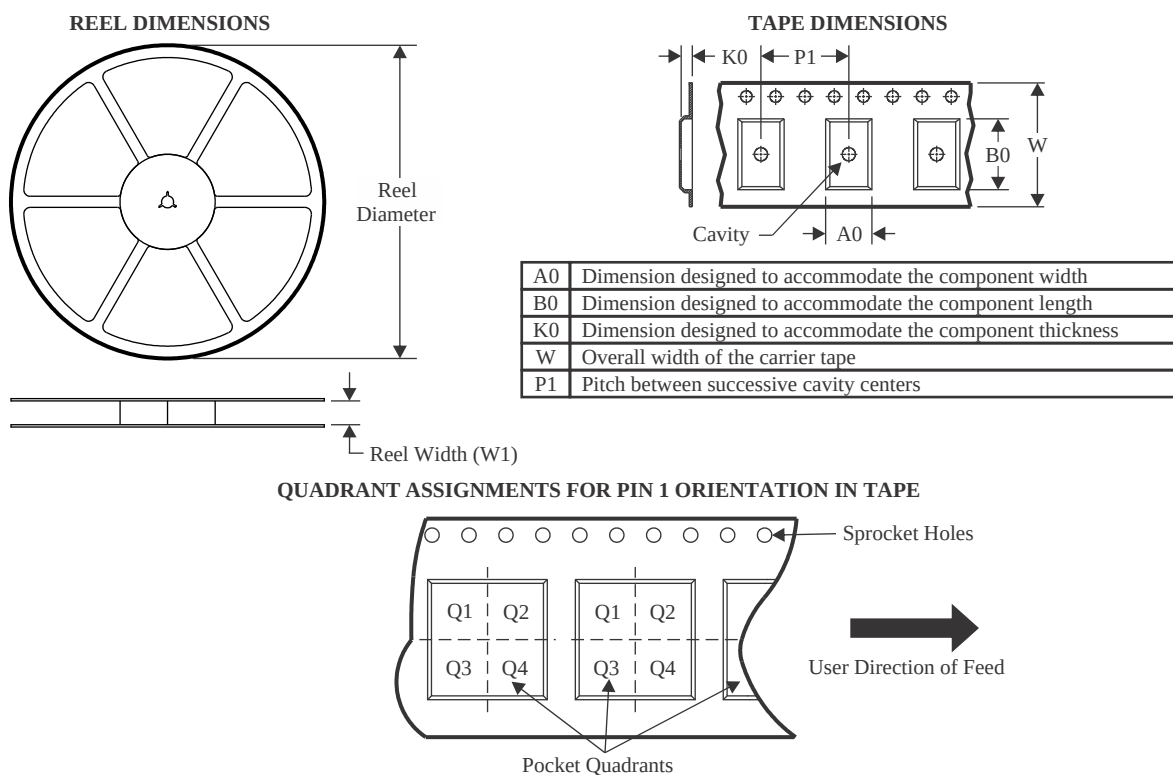
Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

**Important Information and Disclaimer:** The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.



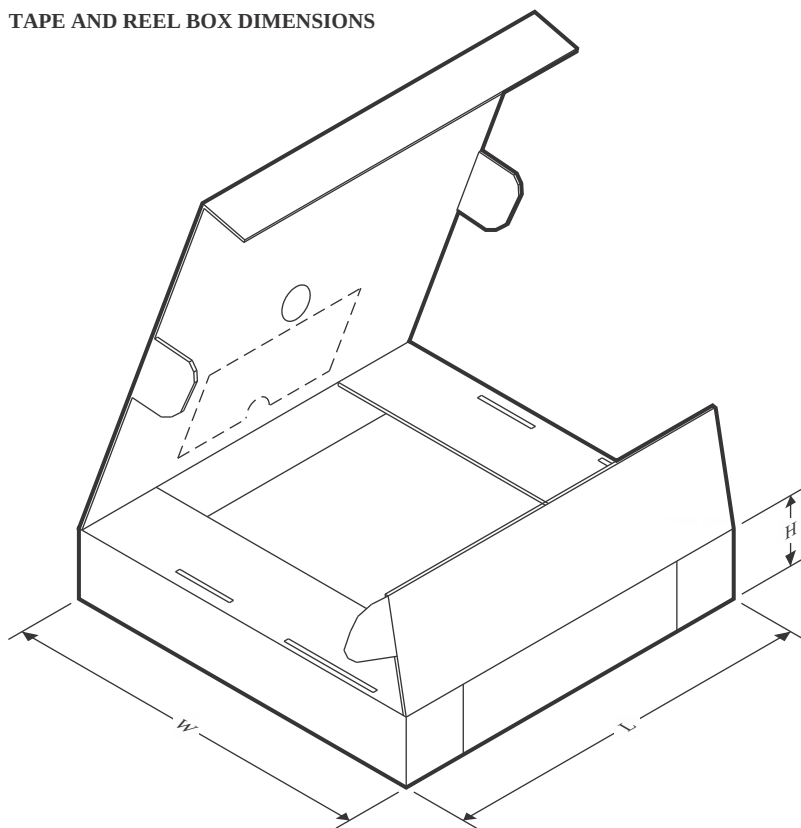
## TAPE AND REEL INFORMATION



\*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 |
|------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| SN75158DR  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| SN75158DR  | SOIC         | D               | 8    | 2500 | 330.0              | 12.4               | 6.4     | 5.2     | 2.1     | 8.0     | 12.0   | Q1            |
| SN75158PSR | SO           | PS              | 8    | 2000 | 330.0              | 16.4               | 8.35    | 6.6     | 2.4     | 12.0    | 16.0   | Q1            |

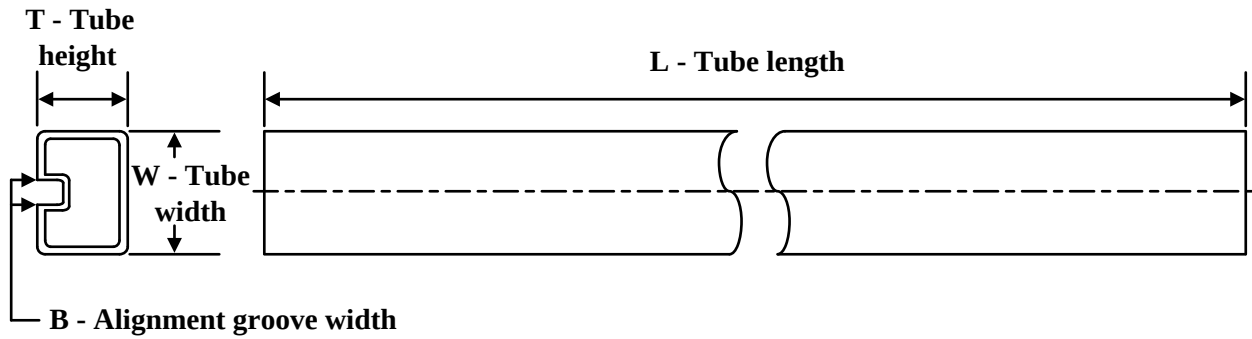
## TAPE AND REEL BOX DIMENSIONS



\*All dimensions are nominal

| Device     | Package Type | Package Drawing | Pins | SPQ  | Length (mm) | Width (mm) | Height (mm) |
|------------|--------------|-----------------|------|------|-------------|------------|-------------|
| SN75158DR  | SOIC         | D               | 8    | 2500 | 353.0       | 353.0      | 32.0        |
| SN75158DR  | SOIC         | D               | 8    | 2500 | 340.5       | 336.1      | 25.0        |
| SN75158PSR | SO           | PS              | 8    | 2000 | 353.0       | 353.0      | 32.0        |

## TUBE



\*All dimensions are nominal

| Device     | Package Name | Package Type | Pins | SPQ | L (mm) | W (mm) | T (μm) | B (mm) |
|------------|--------------|--------------|------|-----|--------|--------|--------|--------|
| SN75158P   | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |
| SN75158P.A | P            | PDIP         | 8    | 50  | 506    | 13.97  | 11230  | 4.32   |



## PACKAGE OUTLINE

**SOIC - 1.75 mm max height**

SMALL OUTLINE INTEGRATED CIRCUIT



1. Linear dimensions are in inches [millimeters]. Dimensions in parenthesis are for reference only. Controlling dimensions are in inches. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 [0.15] per side.
4. This dimension does not include interlead flash.
5. Reference JEDEC registration MS-012, variation AA.

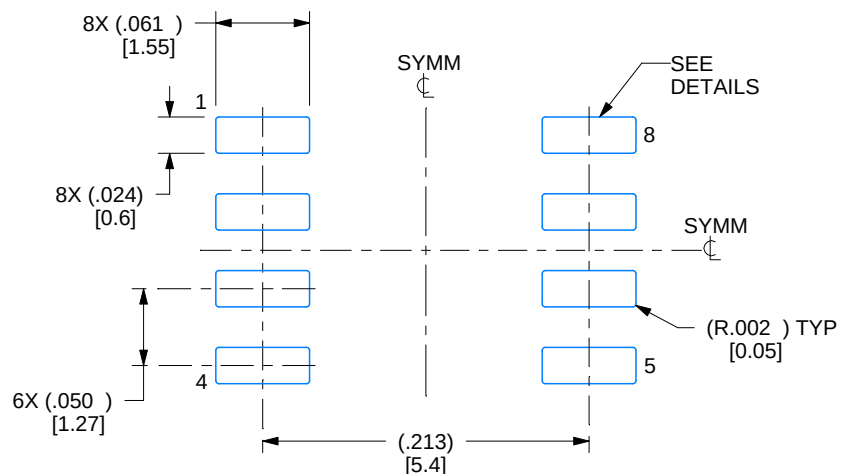


# EXAMPLE BOARD LAYOUT

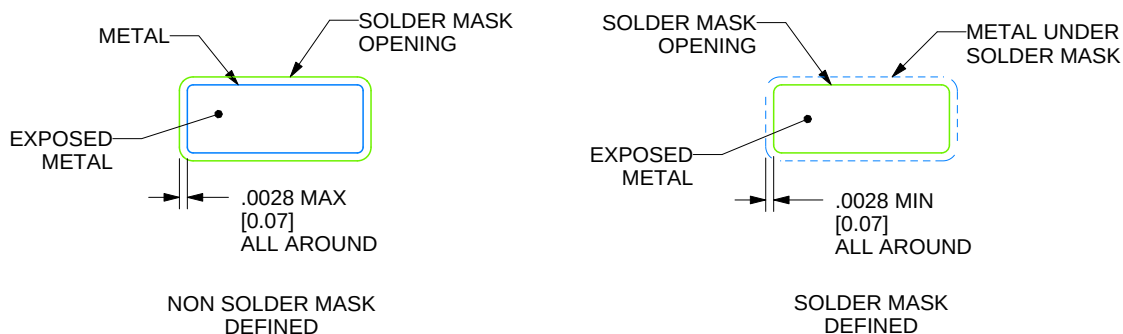
D0008A

SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



LAND PATTERN EXAMPLE  
EXPOSED METAL SHOWN  
SCALE:8X



SOLDER MASK DETAILS

4214825/C 02/2019

NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

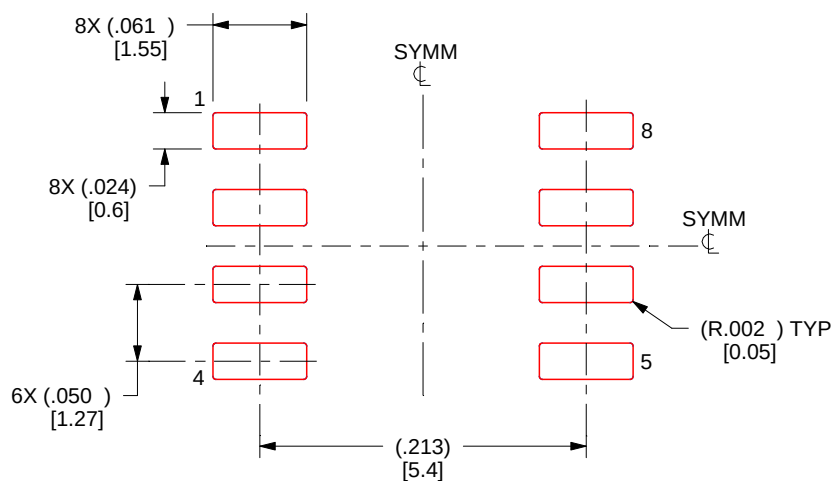
7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

## EXAMPLE STENCIL DESIGN

D0008A

SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



SOLDER PASTE EXAMPLE  
BASED ON .005 INCH [0.125 MM] THICK STENCIL  
SCALE:8X

4214825/C 02/2019

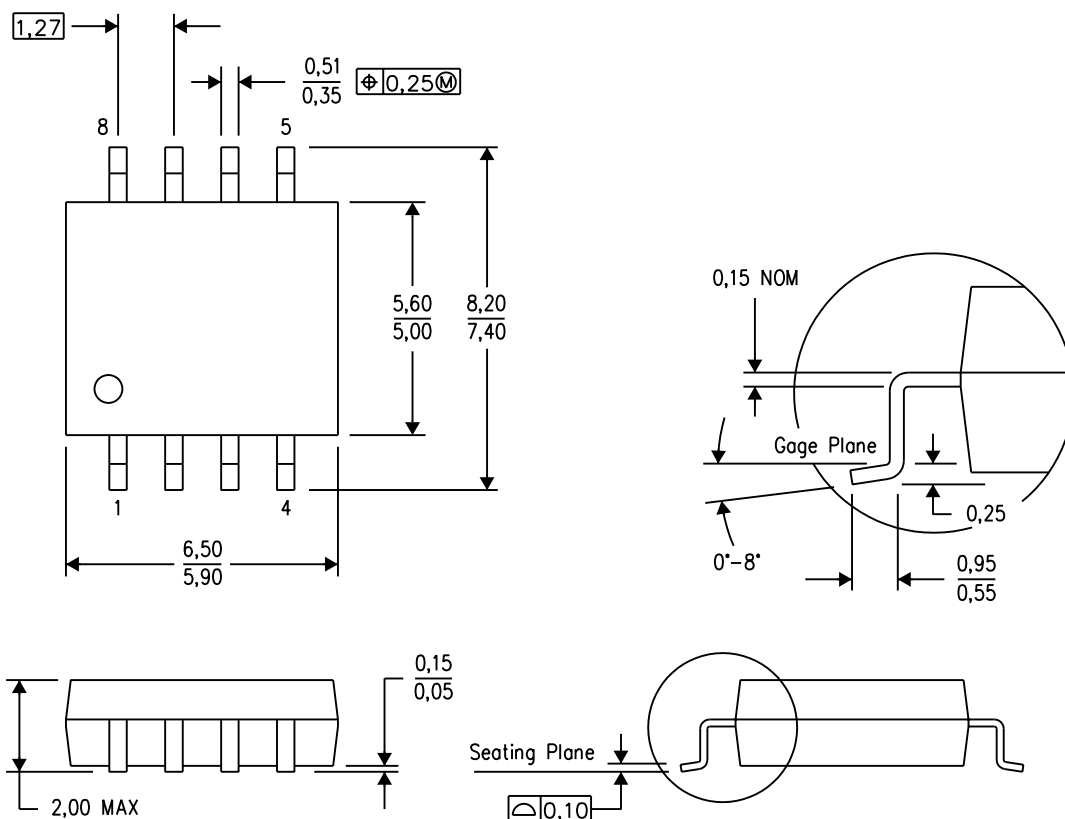
NOTES: (continued)

8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
9. Board assembly site may have different recommendations for stencil design.

# MECHANICAL DATA

PS (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE

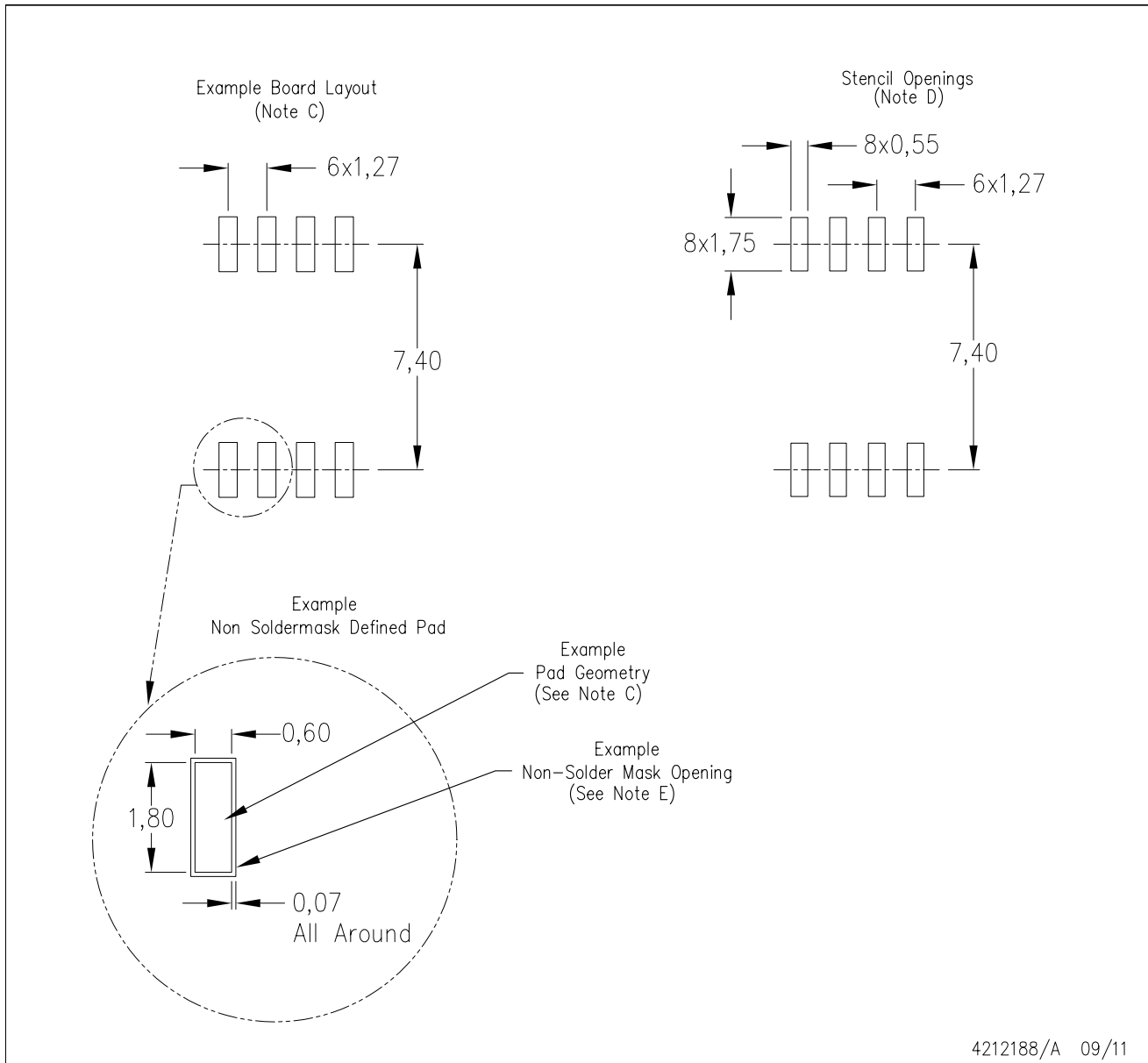


4040063/C 03/03

- 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, not to exceed 0,15.

## PS (R-PDSO-G8)

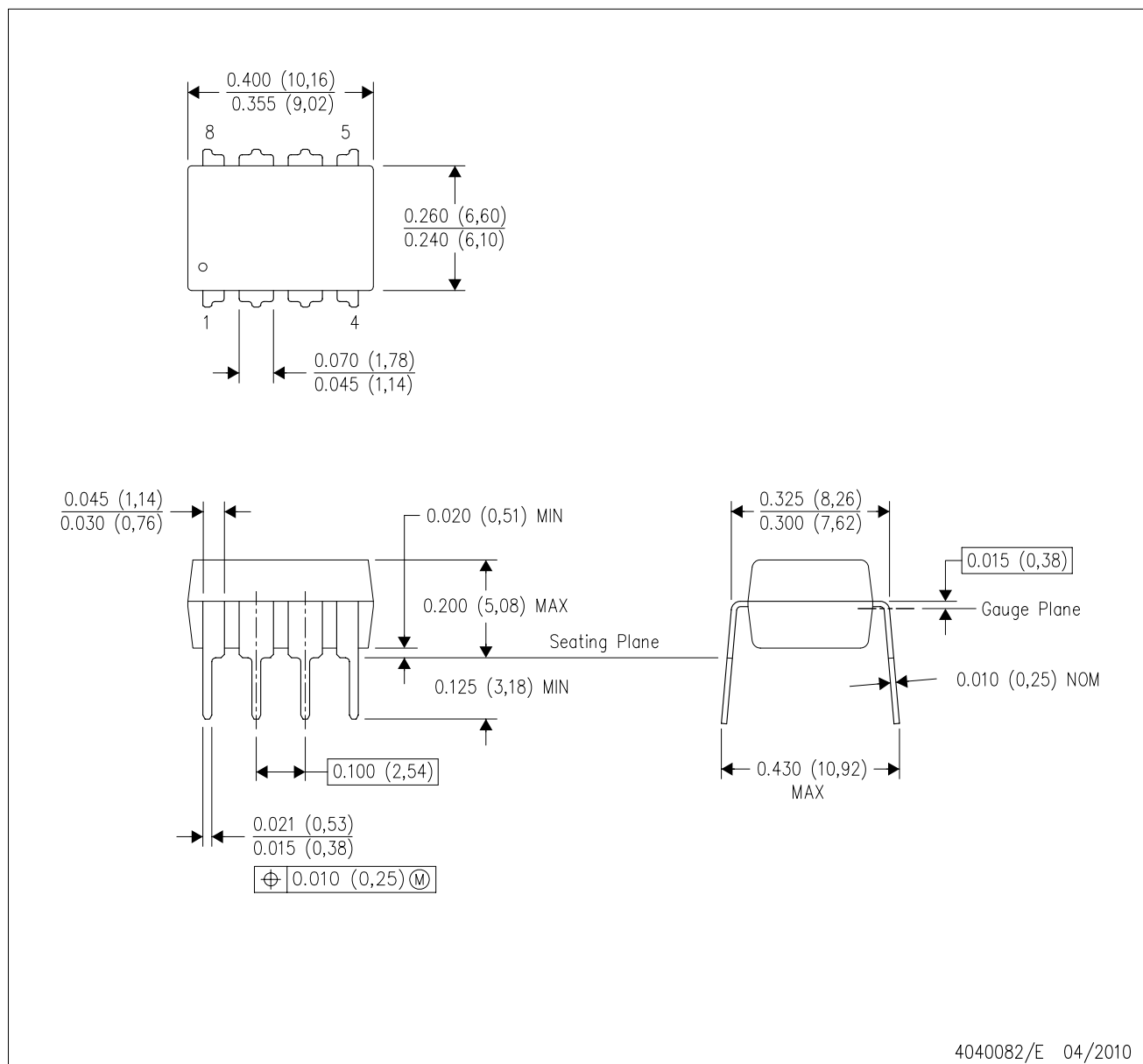
## PLASTIC SMALL OUTLINE



- NOTES:
- All linear dimensions are in millimeters.
  - This drawing is subject to change without notice.
  - Publication IPC-7351 is recommended for alternate designs.
  - 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. Refer to IPC-7525 for other stencil recommendations.
  - Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



- NOTES:
- A. All linear dimensions are in inches (millimeters).
  - B. This drawing is subject to change without notice.
  - C. Falls within JEDEC MS-001 variation BA.

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