



















## REVISION HISTORY

<b>Changes from Revision B (April 2008) to Revision C</b>	<b>Page</b>
• Added Analog inputs RC and COMP in the <i>ABSOLUTE MAXIMUM RATINGS</i> Table .....	<a href="#">2</a>
• Added clarification to Analog Inputs min-max range in the <i>ABSOLUTE MAXIMUM RATINGS</i> table .....	<a href="#">2</a>

<b>Changes from Revision C (August 2010) to Revision D</b>	<b>Page</b>
• Added temperature range table note to second part of ordering information table for clarity in new datasheet format .....	<a href="#">2</a>
• Added TI's general Absolute Maximum Ratings table note to end of <i>ABSOLUTE MAXIMUM RATINGS</i> table .....	<a href="#">2</a>
• Added Thermal Information Table. ....	<a href="#">2</a>
• Added UCCX813-3 to Total variation test condition line containing UCCx813-5 in <i>ELECTRICAL CHARACTERISTICS</i> table .....	<a href="#">3</a>
• Changed part numbers in Dead Time vs $C_T$ , $R_T = 100$ k graph in <i>APPLICATION INFORMATION</i> .....	<a href="#">9</a>
• Changed layout from Unitrode Products datasheet to TI datasheet .....	<a href="#">9</a>

















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**OTHER QUALIFIED VERSIONS OF UCC2813-0, UCC2813-1, UCC2813-2, UCC2813-3, UCC2813-4, UCC2813-5 :**

- Automotive: [UCC2813-0-Q1](#), [UCC2813-1-Q1](#), [UCC2813-2-Q1](#), [UCC2813-3-Q1](#), [UCC2813-4-Q1](#), [UCC2813-5-Q1](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

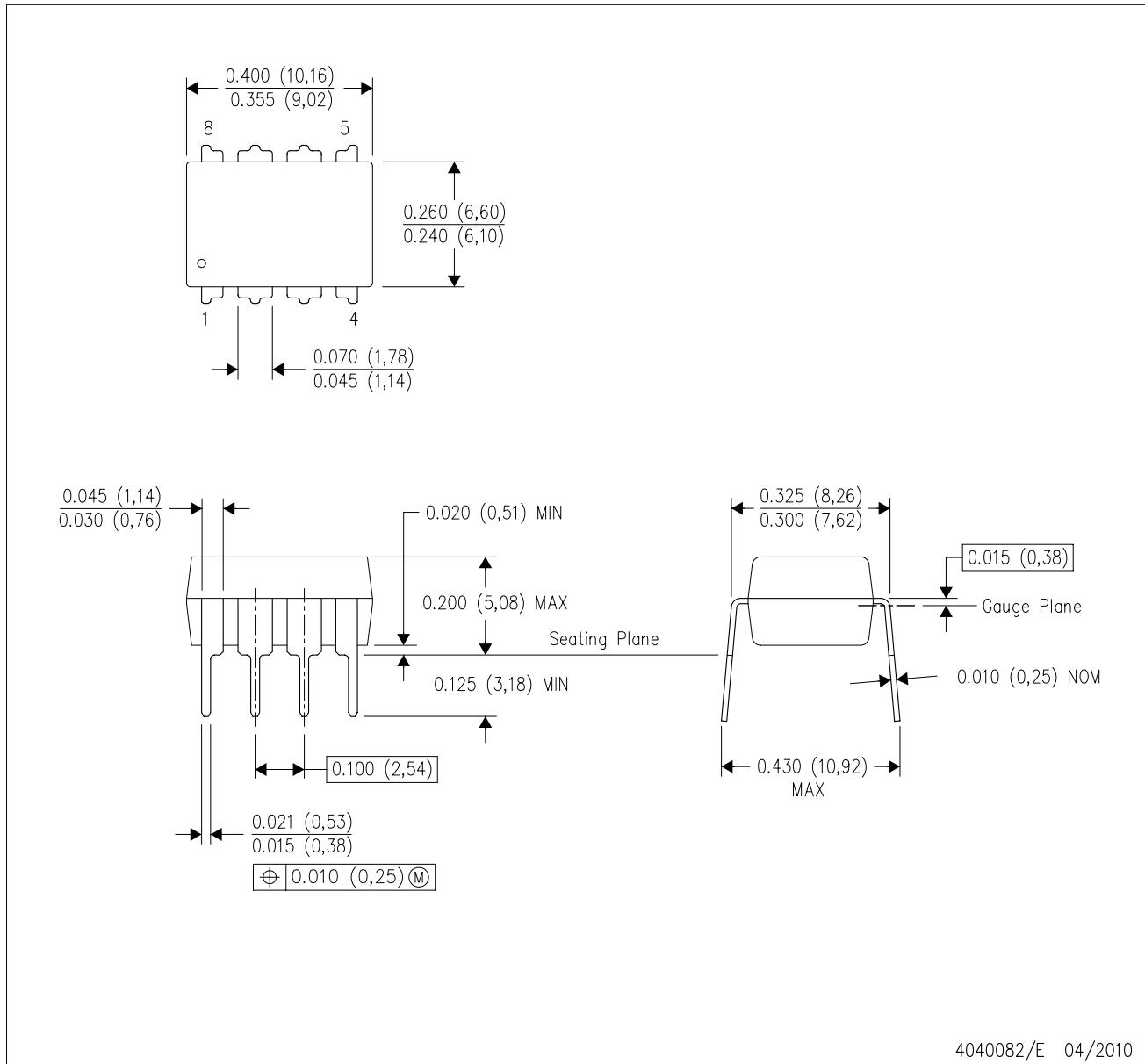




## MECHANICAL DATA

P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE

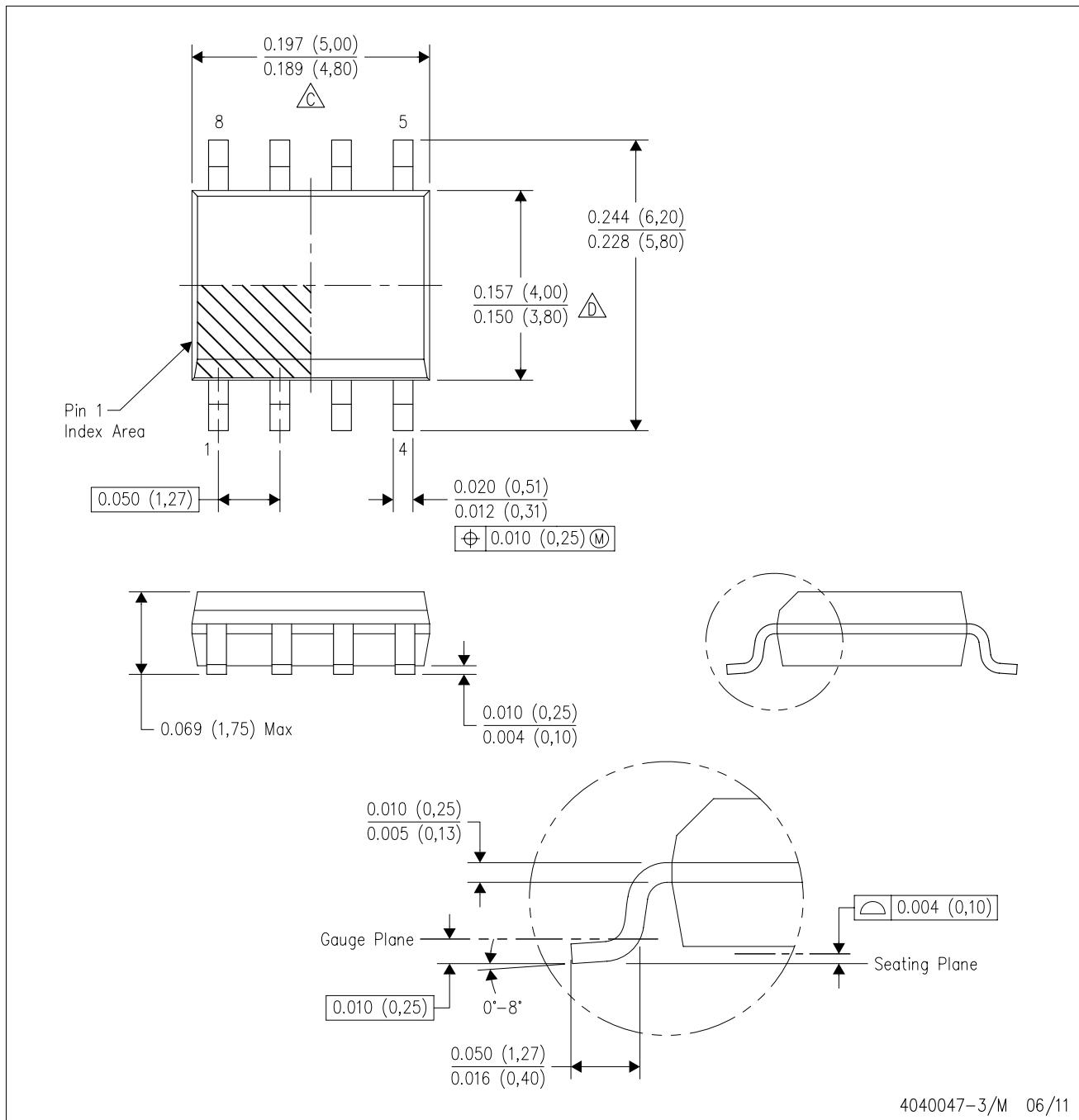


4040082/E 04/2010

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

D (R-PDSO-G8)

PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

△C Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0.15) each side.

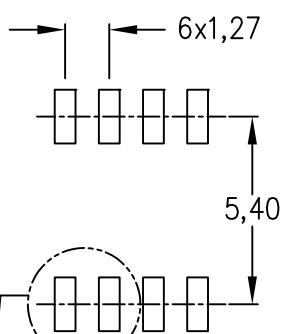
△D Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0.43) each side.  
E. Reference JEDEC MS-012 variation AA.

# LAND PATTERN DATA

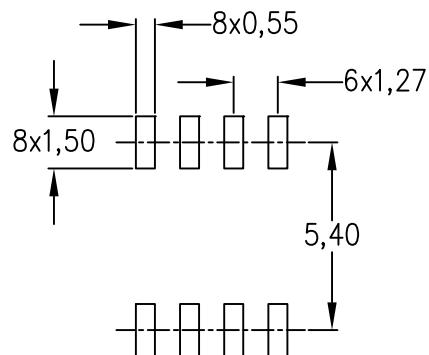
D (R-PDSO-G8)

PLASTIC SMALL OUTLINE

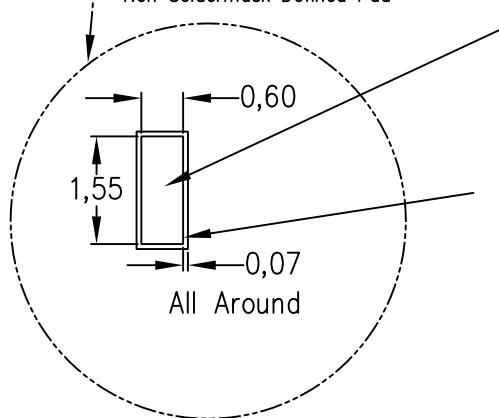
Example Board Layout  
(Note C)



Stencil Openings  
(Note D)



Example  
Non Soldermask Defined Pad



Example  
Pad Geometry  
(See Note C)

Example  
Solder Mask Opening  
(See Note E)

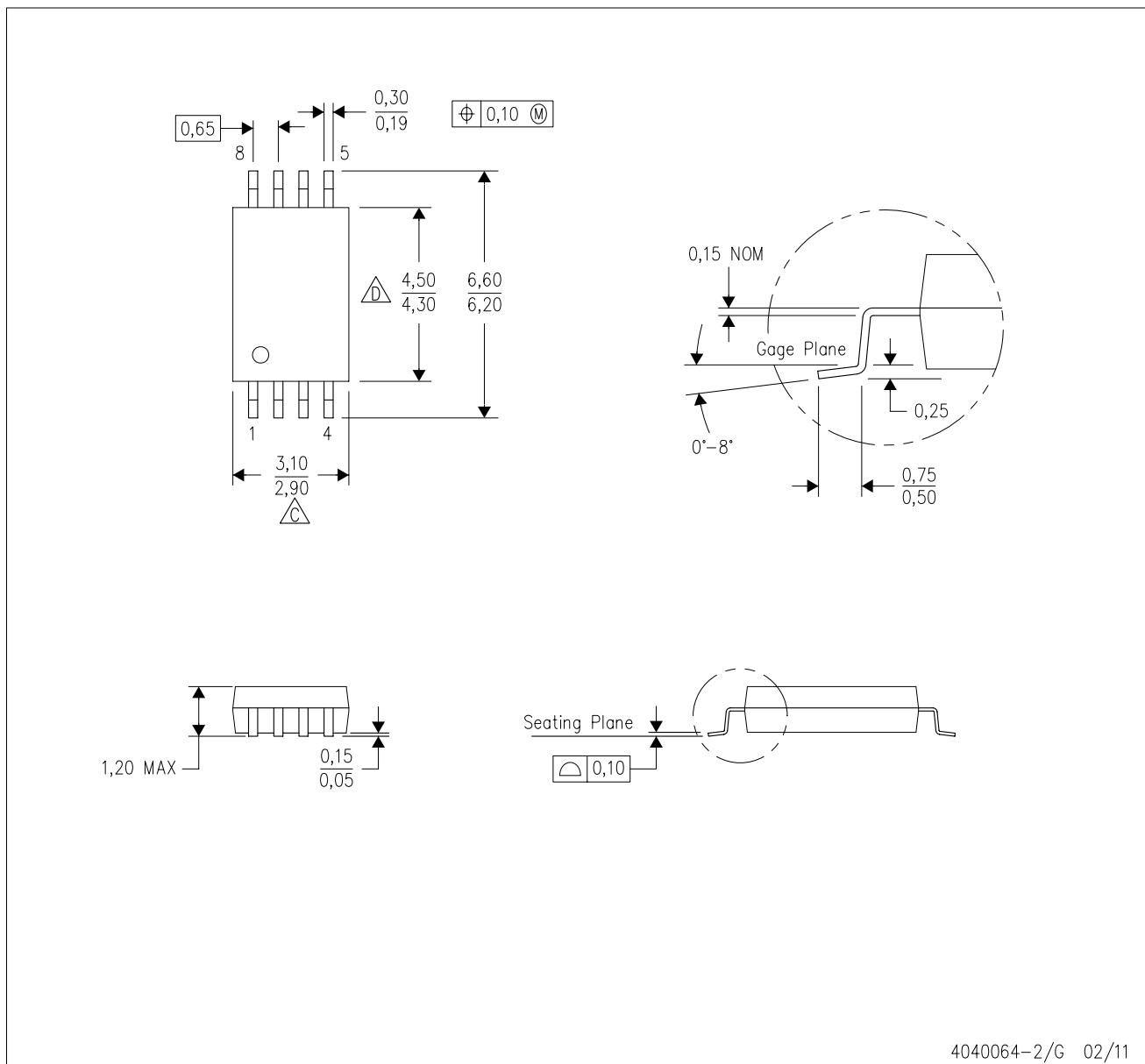
4211283-2/E 08/12

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

## MECHANICAL DATA

PW (R-PDSO-G8)

PLASTIC SMALL OUTLINE



4040064-2/G 02/11

NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

B. This drawing is subject to change without notice.

C. Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 each side.

D. Body width does not include interlead flash. Interlead flash shall not exceed 0.25 each side.

E. Falls within JEDEC MO-153

