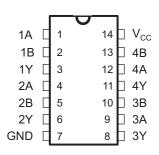
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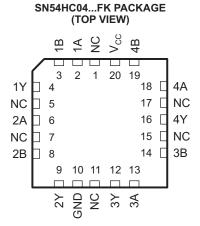
#### **FEATURES**

- Wide Operating Voltage Range of 2 V to 6 V
- Outputs Can Drive Up To 10 LSTTL Loads
- Low Power Consumption, 20-μA Max I<sub>CC</sub>

SN54HC04...J OR W PACKAGE SN74HC04...D, DB, N, NS, OR PW PACKAGE (TOP VIEW)



- Typical t<sub>pd</sub> = 8 ns
- ±4-mA Output Drive at 5 V
- Low Input Current of 1 μA Max



NC - No internal connection

#### **DESCRIPTION/ORDERING INFORMATION**

The 'HC08 devices contain four independent 2-input AND gates. They perform the Boolean function  $Y = A \bullet B$  or  $Y = \overline{A} + \overline{B}$  in positive logic.

#### ORDERING INFORMATION

| T <sub>A</sub> | PACE       | (AGE <sup>(1)</sup> | ODERABLE PART NUMBER | TOP-SIDE MARKING |  |
|----------------|------------|---------------------|----------------------|------------------|--|
|                | PDIP – N   | Reel of 1000        | SN74HC08N            | SN74HC08N        |  |
|                |            | Reel of 1000        | SN74HC08DE4          |                  |  |
|                | SOIC - D   | Reel of 2500        | SN74HC08DR           | HC08             |  |
|                |            | Tube of 250         | SN74HC08DT           |                  |  |
|                | COD NC     | Dool of 2000        | SN74HC08NSR          | HC08             |  |
| –40°C to 85°C  | SOP – NS   | Reel of 2000        | SN74HC08NSRG4        | - ncus           |  |
|                | SSOP – DB  | Reel of 2000        | SN74HC08DBR          | HC08             |  |
|                | 220b – DB  | Reel of 2000        | SN74HC08DBRE4        | - ncus           |  |
|                |            | Tube of 90          | SN74HC08PW           |                  |  |
|                | TSSOP - PW | Reel of 2000        | SN74HC08PWR          | HC08             |  |
|                |            | Tube of 250         | SN74HC08PWT          |                  |  |
|                | CDIP – J   | Reel of 1000        | SNJ54HC08J           | SNJ54HC08J       |  |
| –55°C to 125°C | CFP – W    | Reel of 900         | SNJ54HC08W           | SNJ54HC08W       |  |
|                | LCCC -FK   | Reel of 2200        | SNJ54HC08FK          | SNJ54HC08JFK     |  |

<sup>(1)</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



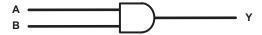
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



## FUNCTION TABLE (EACH INVERTER)

| INPU | INPUTS |   |  |  |  |  |
|------|--------|---|--|--|--|--|
| Α    | В      | Y |  |  |  |  |
| Н    | Н      | Н |  |  |  |  |
| L    | Χ      | L |  |  |  |  |
| Χ    | L      | L |  |  |  |  |

#### **LOGIC DIAGRAM (POSITIVE LOGIC)**



## **Absolute Maximum Ratings**(1)

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

|                  |   |                             | MIN  | MAX | UNIT |
|------------------|---|-----------------------------|------|-----|------|
| $V_{CC}$         | Supply voltage range                              |                             | -0.5 | 7   | V    |
| I <sub>IK</sub>  | Input clamp current <sup>(2)</sup>                | $V_I < 0$ or $V_I > V_{CC}$ |      | ±20 | mA   |
| I <sub>OK</sub>  | Output clamp current <sup>(2)</sup>               | V <sub>O</sub> < 0          |      | ±20 | mA   |
| Io               | Continuous output current                         | $V_O = 0$ to $V_{CC}$       |      | ±25 | mA   |
|                  | Continuous current through V <sub>CC</sub> or GND |                             |      | ±50 | mA   |
|                  |   | D package                   |      | 86  |      |
|                  |   | DB package                  |      | 96  |      |
| $\theta_{JA}$    | Package thermal impedance (3)                     | N package                   |      | 80  | °C/W |
|                  |   | NS package                  |      | 76  |      |
|                  |   | PW package                  |      | 113 |      |
| T <sub>stg</sub> | Storage temperature range                         |                             | -60  | 150 | °C   |

<sup>(1)</sup> 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.

<sup>(2)</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

<sup>(3)</sup> The package thermal impedance is calculated in accordance with JESD 51-7.



# SN54HC08, SN74HC08 QUADRUPLE 2-INPUT POSITIVE-AND GATES

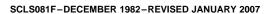
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## Recommended Operating Conditions<sup>(1)</sup>

|                     |                                    |                          | SI   | SN54HC08 |                 | SI   | N74HC08 |                 | UNIT |  |
|---------------------|------------------------------------|--------------------------|------|----------|-----------------|------|---------|-----------------|------|--|
|                     |                                    |                          | MIN  | NOM      | MAX             | MIN  | NOM     | MAX             | UNII |  |
| $V_{CC}$            | V <sub>CC</sub> Supply voltage     |                          | 2    | 5        | 6               | 2    | 5       | 6               | V    |  |
|                     |                                    | V <sub>CC</sub> = 2 V    | 1.5  |          |                 | 1.5  |         |                 |      |  |
| $V_{IH}$            | High-level input voltage           | $V_{CC} = 4.5 \text{ V}$ | 3.15 |          |                 | 3.15 |         |                 | V    |  |
|                     |                                    | $V_{CC} = 6 V$           | 4.2  |          |                 | 4.2  |         |                 |      |  |
|                     |                                    | V <sub>CC</sub> = 2 V    |      |          | 0.5             |      |         | 0.5             |      |  |
| $V_{IL}$            | Low-level input voltage            | V <sub>CC</sub> = 4.5 V  |      |          | 1.35            |      |         | 1.35            | V    |  |
|                     |                                    | V <sub>CC</sub> = 6 V    |      |          | 1.8             |      |         | 1.8             |      |  |
| $V_{I}$             | Input voltage                      |                          | 0    |          | V <sub>CC</sub> | 0    |         | V <sub>CC</sub> | V    |  |
| $V_{O}$             | Output voltage                     |                          | 0    |          | $V_{CC}$        | 0    |         | $V_{CC}$        | V    |  |
|                     |                                    | V <sub>CC</sub> = 2 V    |      |          | 1000            |      |         | 1000            |      |  |
| $\Delta t/\Delta v$ | Input transition rise or fall rate | V <sub>CC</sub> = 4.5 V  |      |          | 500             |      |         | 500             | ns   |  |
|                     |                                    | V <sub>CC</sub> = 6 V    |      |          | 400             |      |         | 400             |      |  |
| $T_A$               | Operating free-air temperature     |                          | -55  |          | 125             | -40  |         | 85              | °C   |  |

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

## SN54HC08, SN74HC08 QUADRUPLE 2-INPUT POSITIVE-AND GATES





## **Electrical Characteristics**

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

| PARAMETER       | TEST CO                           | TEST CONDITIONS            |                 | Т    | <sub>A</sub> = 25°C | ;     | SN54H | C08   | SN74HC08 |       | UNIT |  |
|-----------------|-----------------------------------|----------------------------|-----------------|------|---------------------|-------|-------|-------|----------|-------|------|--|
| PARAMETER       | TEST CONDITIONS                   |                            | V <sub>cc</sub> | MIN  | TYP                 | MAX   | MIN   | MAX   | MIN      | MAX   | UNIT |  |
|                 |                                   |                            | 2 V             | 1.9  | 1.998               |       | 1.9   |       | 1.9      |       |      |  |
|                 |                                   | $I_{OH} = -20 \mu A$       | 4.5 V           | 4.4  | 4.499               |       | 4.4   |       | 4.4      |       |      |  |
| V <sub>OH</sub> | $V_I = V_{IH}$ or $V_{IL}$        |                            | 6 V             | 5.9  | 5.999               |       | 5.9   |       | 5.9      |       | V    |  |
|                 |                                   | $I_{OH} = -4 \text{ mA}$   | 4.5 V           | 3.98 | 4.3                 |       | 3.7   |       | 3.84     |       |      |  |
|                 |                                   | $I_{OH} = -5.2 \text{ mA}$ | 6 V             | 5.48 | 5.8                 |       | 5.2   |       | 5.34     |       |      |  |
|                 |                                   |                            |                 | 2 V  |                     | 0.002 | 0.1   |       | 0.1      |       | 0.1  |  |
|                 |                                   | $I_{OL} = 20 \mu A$        | 4.5 V           |      | 0.001               | 0.1   |       | 0.1   |          | 0.1   |      |  |
| V <sub>OL</sub> | $V_I = V_{IH} \text{ or } V_{IL}$ |                            | 6 V             |      | 0.001               | 0.1   |       | 0.1   |          | 0.1   | V    |  |
|                 |                                   | $I_{OL} = 4 \text{ mA}$    | 4.5 V           |      | 0.17                | 0.26  |       | 0.4   |          | 0.33  |      |  |
|                 |                                   | $I_{OL} = 5.2 \text{ mA}$  | 6 V             |      | 0.15                | 0.26  |       | 0.4   |          | 0.33  |      |  |
| I <sub>I</sub>  | $V_I = V_{CC}$ or 0               |                            | 6 V             |      | ±0.1                | ±100  |       | ±1000 |          | ±1000 | nA   |  |
| I <sub>CC</sub> | $V_I = V_{CC}$ or 0,              | I <sub>O</sub> = 0         | 6 V             |      |                     | 2     |       | 40    |          | 20    | μΑ   |  |
| C <sub>i</sub>  |                                   |                            | 2 V to 6 V      |      | 3                   | 10    |       | 10    |          | 10    | pF   |  |

## **Switching Characteristics**

over operating free-air temperature range,  $C_L$  = 50 pF (unless otherwise noted) (see Figure 1)

| PARAMETER       | FROM    | то       | V               | T,  | , = 25°C | ;   | SN54H0 | 800 | SN74F | 1C08 | LINUT |
|-----------------|---------|----------|-----------------|-----|----------|-----|--------|-----|-------|------|-------|
| PARAMETER       | (INPUT) | (OUTPUT) | V <sub>CC</sub> | MIN | TYP      | MAX | MIN    | MAX | MIN   | MAX  | UNIT  |
|                 |         |          | 2 V             |     | 50       | 100 |        | 150 |       | 125  |       |
| t <sub>pd</sub> | Α       | Y        | 4.5 V           |     | 10       | 20  |        | 30  |       | 25   | ns    |
|                 |         |          | 6 V             |     | 8        | 17  |        | 25  |       | 24   |       |
|                 |         |          | 2 V             |     | 38       | 75  |        | 110 |       | 95   |       |
| t <sub>t</sub>  |         | Y        | 4.5 V           |     | 8        | 15  |        | 22  |       | 19   | ns    |
|                 |         |          | 6 V             |     | 6        | 13  |        | 19  |       | 16   |       |

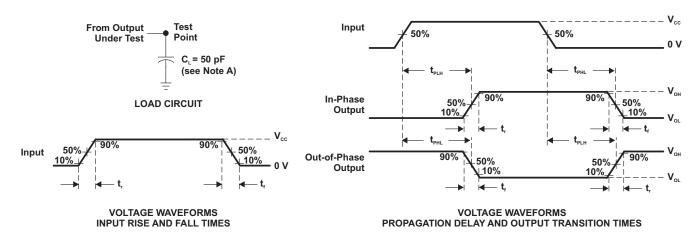
## **Operating Characteristics**

 $T_A = 25^{\circ}C$ 

|                 | PARAMETER                                  | TEST CONDITIONS | TYP | UNIT |
|-----------------|--|-----------------|-----|------|
| C <sub>pd</sub> | Power dissipation capacitance per inverter | No load         | 20  | pF   |

SCLS081F-DECEMBER 1982-REVISED JANUARY 2007

#### PARAMETER MEASURMENT INFORMATION



NOTES: A. C<sub>L</sub> includes probe and test-fixture capacitance.

- B. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR ≤ 1 MHz, Z₀ = 50 Ω, t₀ = 6 ns, t₀ = 6 ns.
- C. The outputs are measured one at a time with one input transition per measurement.
- D.  $t_{PLH}$  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<br>Type | Package<br>Drawing | Pins | Package<br>Qty | Eco Plan <sup>(2)</sup> | Lead/Ball Finish | MSL Peak Temp <sup>(3)</sup> |
|------------------|-----------------------|-----------------|--------------------|------|----------------|-------------------------|------------------|------------------------------|
| 5962-8404701VCA  | ACTIVE                | CDIP            | J                  | 14   | 1              | TBD                     | A42 SNPB         | N / A for Pkg Type           |
| 5962-8404701VDA  | ACTIVE                | CFP             | W                  | 14   | 1              | TBD                     | A42              | N / A for Pkg Type           |
| 84047012A        | ACTIVE                | LCCC            | FK                 | 20   | 1              | TBD                     | POST-PLATE       | N / A for Pkg Type           |
| 8404701CA        | ACTIVE                | CDIP            | J                  | 14   | 1              | TBD                     | A42 SNPB         | N / A for Pkg Type           |
| 8404701DA        | ACTIVE                | CFP             | W                  | 14   | 1              | TBD                     | A42              | N / A for Pkg Type           |
| JM38510/65203B2A | ACTIVE                | LCCC            | FK                 | 20   | 1              | TBD                     | POST-PLATE       | N / A for Pkg Type           |
| JM38510/65203BCA | ACTIVE                | CDIP            | J                  | 14   | 1              | TBD                     | A42 SNPB         | N / A for Pkg Type           |
| JM38510/65203BDA | ACTIVE                | CFP             | W                  | 14   | 1              | TBD                     | A42              | N / A for Pkg Type           |
| SN54HC08J        | ACTIVE                | CDIP            | J                  | 14   | 1              | TBD                     | A42 SNPB         | N / A for Pkg Type           |
| SN74HC08D        | ACTIVE                | SOIC            | D                  | 14   | 50             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DBR      | ACTIVE                | SSOP            | DB                 | 14   | 2000           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DBRE4    | ACTIVE                | SSOP            | DB                 | 14   | 2000           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DE4      | ACTIVE                | SOIC            | D                  | 14   | 50             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DG4      | ACTIVE                | SOIC            | D                  | 14   | 50             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DR       | ACTIVE                | SOIC            | D                  | 14   | 2500           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DRE4     | ACTIVE                | SOIC            | D                  | 14   | 2500           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DRG4     | ACTIVE                | SOIC            | D                  | 14   | 2500           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DT       | ACTIVE                | SOIC            | D                  | 14   | 250            | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08DTE4     | ACTIVE                | SOIC            | D                  | 14   | 250            | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08N        | ACTIVE                | PDIP            | N                  | 14   | 25             | Pb-Free<br>(RoHS)       | CU NIPDAU        | N / A for Pkg Type           |
| SN74HC08N3       | OBSOLETE              | PDIP            | N                  | 14   |                | TBD                     | Call TI          | Call TI                      |
| SN74HC08NE4      | ACTIVE                | PDIP            | N                  | 14   | 25             | Pb-Free<br>(RoHS)       | CU NIPDAU        | N / A for Pkg Type           |
| SN74HC08NSR      | ACTIVE                | SO              | NS                 | 14   | 2000           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08NSRE4    | ACTIVE                | SO              | NS                 | 14   | 2000           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08NSRG4    | ACTIVE                | SO              | NS                 | 14   | 2000           | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PW       | ACTIVE                | TSSOP           | PW                 | 14   | 90             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWE4     | ACTIVE                | TSSOP           | PW                 | 14   | 90             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWG4     | ACTIVE                | TSSOP           | PW                 | 14   | 90             | Green (RoHS & no Sb/Br) | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWLE     | OBSOLETE              | TSSOP           | PW                 | 14   |                | TBD                     | Call TI          | Call TI                      |



#### PACKAGE OPTION ADDENDUM

23-Jan-2007

| Orderable Device | Status <sup>(1)</sup> | Package<br>Type | Package<br>Drawing | Pins | Packag<br>Qty | e Eco Plan <sup>(2)</sup> | Lead/Ball Finish | MSL Peak Temp <sup>(3)</sup> |
|------------------|-----------------------|-----------------|--------------------|------|---------------|---------------------------|------------------|------------------------------|
| SN74HC08PWR      | ACTIVE                | TSSOP           | PW                 | 14   | 2000          | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWRE4    | ACTIVE                | TSSOP           | PW                 | 14   | 2000          | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWRG4    | ACTIVE                | TSSOP           | PW                 | 14   | 2000          | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWT      | ACTIVE                | TSSOP           | PW                 | 14   | 250           | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWTE4    | ACTIVE                | TSSOP           | PW                 | 14   | 250           | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SN74HC08PWTG4    | ACTIVE                | TSSOP           | PW                 | 14   | 250           | Green (RoHS & no Sb/Br)   | CU NIPDAU        | Level-1-260C-UNLIM           |
| SNJ54HC08FK      | ACTIVE                | LCCC            | FK                 | 20   | 1             | TBD                       | POST-PLATE       | N / A for Pkg Type           |
| SNJ54HC08J       | ACTIVE                | CDIP            | J                  | 14   | 1             | TBD                       | A42 SNPB         | N / A for Pkg Type           |
| SNJ54HC08W       | ACTIVE                | CFP             | W                  | 14   | 1             | TBD                       | A42              | N / A for Pkg Type           |
| SNV54HC08J       | ACTIVE                | CDIP            | J                  | 14   |               | TBD                       | Call TI          | Call TI                      |
| SNV54HC08W       | ACTIVE                | CFP             | W                  | 14   | •             | TBD                       | Call TI          | Call TI                      |

(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.

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## 14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

## W (R-GDFP-F14)

## CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB



#### FK (S-CQCC-N\*\*)

#### **28 TERMINAL SHOWN**

#### **LEADLESS CERAMIC CHIP CARRIER**



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

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



## N (R-PDIP-T\*\*)

## PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



## D (R-PDSO-G14)

## PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AB.



## **MECHANICAL DATA**

## NS (R-PDSO-G\*\*)

## 14-PINS SHOWN

#### PLASTIC SMALL-OUTLINE PACKAGE



- 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.



## DB (R-PDSO-G\*\*)

## PLASTIC SMALL-OUTLINE

#### **28 PINS SHOWN**



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.

D. Falls within JEDEC MO-150

## PW (R-PDSO-G\*\*)

#### 14 PINS SHOWN

## 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 not to exceed 0,15.

D. Falls within JEDEC MO-153

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