SCLS265O - DECEMBER 1995 - REVISED JULY 2003

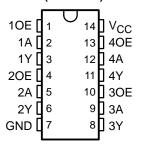
- Inputs Are TTL-Voltage Compatible
- Latch-Up Performance Exceeds 250 mA Per JESD 17
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)

description/ordering information

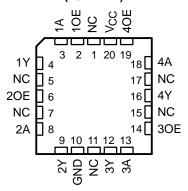
The 'AHCT126 devices are quadruple bus buffer gates featuring independent line drivers with 3-state outputs. Each output is disabled when the associated output-enable (OE) input is low. When OE is high, the respective gate passes the data from the A input to its Y output.

To ensure the high-impedance state during power up or power down, OE should be tied to GND through a pulldown resistor; the minimum value of the resistor is determined by the current-sourcing capability of the driver.

SN54AHCT126 . . . J OR W PACKAGE SN74AHCT126 . . . D, DB, DGV, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AHCT126...FK PACKAGE (TOP VIEW)



NC - No internal connection

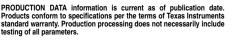
ORDERING INFORMATION

| TA | PACKAGE† | | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|-------------|---------------|--------------------------|---------------------|
| | PDIP – N | Tube | SN74AHCT126N | SN74AHCT126N |
| | SOIC - D | Tube | SN74AHCT126D | AHCT126 |
| | 3010-15 | Tape and reel | SN74AHCT126DR | A1101120 |
| -40°C to 85°C | SOP – NS | Tape and reel | SN74AHCT126NSR | AHCT126 |
| -40 0 10 03 0 | SSOP – DB | Tape and reel | SN74AHCT126DBR | HB126 |
| | TSSOP – PW | Tube | SN74AHCT126PW | HB126 |
| | 1330F = FW | Tape and reel | SN74AHCT126PWR | 110120 |
| | TVSOP – DGV | Tape and reel | SN74AHCT126DGVR | HB126 |
| | CDIP – J | Tube | SNJ54AHCT126J | SNJ54AHCT126J |
| –55°C to 125°C | CFP – W | Tube | SNJ54AHCT126W | SNJ54AHCT126W |
| | LCCC – FK | Tube | SNJ54AHCT126FK | SNJ54AHCT126FK |

[†] 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.



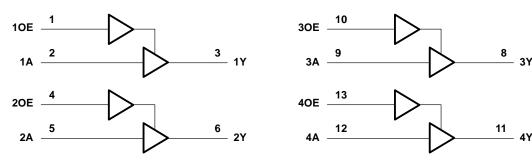


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FUNCTION TABLE (each buffer)

| INPU | JTS | OUTPUT |
|------|-----|--------|
| OE | Α | Υ |
| Н | Н | Н |
| Н | L | L |
| L | Χ | Z |

logic diagram (positive logic)



Pin numbers shown are for the D, DB, DGV, J, N, NS, PW, and W packages.

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

| Supply voltage range, V _{CC} | | –0.5 V to 7 V |
|--|-------------|----------------------------------|
| Input voltage range, V _I (see Note 1) | | –0.5 V to 7 V |
| Output voltage range, VO (see Note 1) | | 0.5 V to V _{CC} + 0.5 V |
| Input clamp current, $I_{IK}(V_I < 0)$ | | –20 mA |
| Output clamp current, I_{OK} ($V_O < 0$ or $V_O > V_{CO}$ | c) | ±20 mA |
| Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$ | - | ±25 mA |
| Continuous current through V _{CC} or GND | | ±50 mA |
| Package thermal impedance, θ _{JA} (see Note 2) | : D package | 86°C/W |
| | DB package | 96°C/W |
| | DGV package | 127°C/W |
| | N package | 80°C/W |
| | NS package | 76°C/W |
| | PW package | |
| Storage temperature range, T _{stg} | | –65°C to 150°C |

[†] 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.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.



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recommended operating conditions (see Note 3)

| | | SN54AH | CT126 | SN74AH | CT126 | UNIT |
|-----------------|------------------------------------|-------------|-------|--------|-------|------|
| | | MIN | MAX | MIN | MAX | UNIT |
| VCC | Supply voltage | 4.5 | 5.5 | 4.5 | 5.5 | V |
| VIH | High-level input voltage | 2 | | 2 | | V |
| V _{IL} | Low-level input voltage | | 0.8 | | 0.8 | V |
| ٧ _I | Input voltage | 0 | 5.5 | 0 | 5.5 | V |
| Vo | Output voltage | 0 | VCC | 0 | VCC | V |
| ЮН | High-level output current | | -8 | | -8 | mA |
| loL | Low-level output current | | 8 | | 8 | mA |
| Δt/Δν | Input transition rise or fall rate | | 20 | | 20 | ns/V |
| TA | Operating free-air temperature | - 55 | 125 | -40 | 85 | °C |

NOTE 3: 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.

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

| PARAMETER | TEST CONDITIONS | Vaa | T _A = 25°C | | | SN54AHCT126 | | SN74AHCT126 | | UNIT |
|--------------------|---|--------------|-----------------------|-----|-------|-------------|------|-------------|------|------|
| PARAMETER | TEST CONDITIONS | VCC | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNII |
| Vari | I _{OH} = -50 μA | 4.5 V | 4.4 | 4.5 | | 4.4 | | 4.4 | | V |
| VOH | $I_{OH} = -8 \text{ mA}$ | 4.5 V | 3.94 | | | 3.8 | | 3.8 | | ٧ |
| Voi | I _{OL} = 50 μA | 4.5 V | | | 0.1 | | 0.1 | | 0.1 | V |
| VOL | I _{OL} = 8 mA | 4.5 V | | | 0.36 | | 0.44 | | 0.44 | V |
| l _l | V _I = 5.5 V or GND | 0 V to 5.5 V | | | ±0.1 | | ±1* | | ±1 | μΑ |
| loz | $V_O = V_{CC}$ or GND | 5.5 V | | | ±0.25 | | ±2.5 | | ±2.5 | μΑ |
| lcc | $V_I = V_{CC}$ or GND, $I_O = 0$ | 5.5 V | | | 2 | | 20 | | 20 | μΑ |
| ∆l _{CC} † | One input at 3.4 V, Other inputs at V _{CC} or GND | 5.5 V | | | 1.35 | | 1.5 | | 1.5 | mA |
| C _i | V _I = V _{CC} or GND | 5 V | | 4 | 10 | | | | 10 | pF |
| Co | VO = VCC or GND | 5 V | | 15 | | | | | · | pF |

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested at $V_{CC} = 0 \text{ V}$.



[†] This is the increase in supply current for each input at one of the specified TTL voltage levels, rather than 0 V or V_{CC}.

SN54AHCT126, SN74AHCT126 QUADRUPLE BUS BUFFER GATES WITH 3-STATE OUTPUTS

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switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

| PARAMETER | FROM | то | LOAD | T, | λ = 25°C | ; | SN54AH | CT126 | SN74AH | CT126 | UNIT |
|------------------|---------|----------|------------------------|-----|----------|------|--------|-------|--------|-------|------|
| PARAWETER | (INPUT) | (OUTPUT) | CAPACITANCE | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNIT |
| t _{PLH} | А | Y | C: - 15 pF | | 3.8* | 5.5* | 1* | 6.5* | 1 | 6.5 | ns |
| t _{PHL} | A | ī | C _L = 15 pF | | 3.8* | 5.5* | 1* | 6.5* | 1 | 6.5 | 115 |
| t _{PZH} | OF. | Y | C: - 15 pF | | 3.6* | 5.1* | 1* | 6* | 1 | 6 | no |
| tPZL | OE | ī | C _L = 15 pF | | 3.6* | 5.1* | 1* | 6* | 1 | 6 | ns |
| t _{PHZ} | OE | Y | C _L = 15 pF | | 4.6* | 6.8* | 1* | 8* | 1 | 8 | ns |
| t _{PLZ} | OL | ī | | | 4.6* | 6.8* | 1* | 8* | 1 | 8 | 8 |
| t _{PLH} | Α | Y | C: 50 pF | | 5.3 | 7.5 | 1 | 8.5 | 1 | 8.5 | |
| t _{PHL} | A | Ť | C _L = 50 pF | | 5.3 | 7.5 | 1 | 8.5 | 1 | 8.5 | ns |
| ^t PZH | OF. | Y | C _I = 50 pF | | 5.1 | 7.1 | 1 | 8 | 1 | 8 | no |
| tPZL | OE | ī | CL = 50 pr | | 5.1 | 7.1 | 1 | 8 | 1 | 8 | ns |
| t _{PHZ} | OE | Y | C _I = 50 pF | | 6.1 | 8.8 | 1 | 10 | 1 | 10 | ns |
| t _{PLZ} | OE | | CL = 30 pr | | 6.1 | 8.8 | 1 | 10 | 1 | 10 | 115 |
| tsk(o) | | | C _L = 50 pF | | | 1** | | | | 1 | ns |

^{*} On products compliant to MIL-PRF-38535, this parameter is not production tested.

noise characteristics, $V_{CC} = 5 \text{ V}$, $C_L = 50 \text{ pF}$, $T_A = 25^{\circ}\text{C}$ (see Note 4)

| | PARAMETER | | SN74AHCT126 | | |
|---------------------|---|-----|-------------|------|--|
| | PARAMETER | MIN | MAX | UNIT | |
| V _{OL(P)} | Quiet output, maximum dynamic V _{OL} | | 0.8 | V | |
| V _{OL} (V) | Quiet output, minimum dynamic V _{OL} | | -0.8 | V | |
| V _{OH(V)} | Quiet output, minimum dynamic VOH | 4.4 | | V | |
| V _{IH(D)} | High-level dynamic input voltage | 2 | | V | |
| V _{IL(D)} | Low-level dynamic input voltage | | 0.8 | V | |

NOTE 4: Characteristics are for surface-mount packages only.

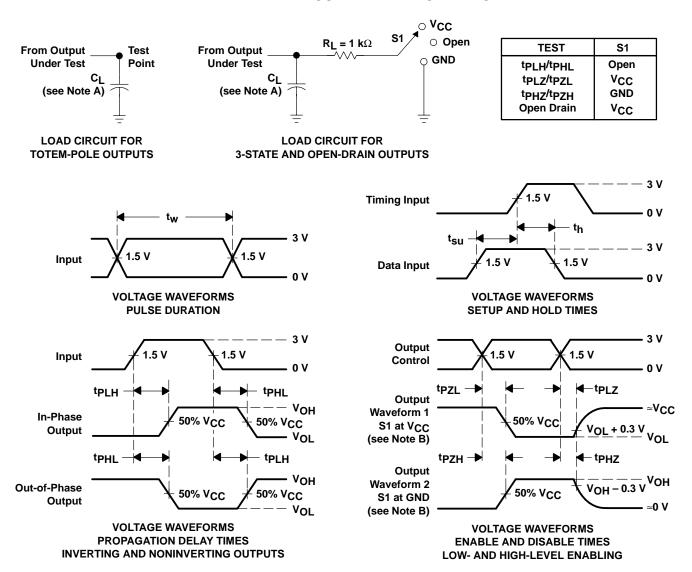
operating characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$

| | PARAMETER | TEST C | ONDITIONS | TYP | UNIT |
|-----------------|-------------------------------|----------|-----------|-----|------|
| C _{pd} | Power dissipation capacitance | No load, | f = 1 MHz | 14 | pF |



^{**} On products compliant to MIL-PRF-38535, this parameter does not apply.

PARAMETER MEASUREMENT INFORMATION



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 1 MHz, $Z_Q = 50 \Omega$, $t_f \leq$ 3 ns, $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.
- E. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms

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PACKAGING INFORMATION

| Orderable Device | Status (1) | Package Type | Package Drawing | Pins | Package Qty | e Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|-------------------|------------|-----------------|--------------------|------|----------------|---------------------------|------------------|------------------------------|
| 5962-9686301Q2A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| 5962-9686301QCA | ACTIVE | CDIP | J | 14 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| 5962-9686301QDA | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |
| SN74AHCT126D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DBLE | OBSOLETE | SSOP | DB | 14 | | TBD | Call TI | Call TI |
| SN74AHCT126DBR | ACTIVE | SSOP | DB | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DBRE4 | ACTIVE | SSOP | DB | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DBRG4 | ACTIVE | SSOP | DB | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DE4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DGVR | ACTIVE | TVSOP | DGV | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DGVRE4 | ACTIVE | TVSOP | DGV | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DGVRG4 | ACTIVE | TVSOP | DGV | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DRE4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126DRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126N | ACTIVE | PDIP | N | 14 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| SN74AHCT126NE4 | ACTIVE | PDIP | N | 14 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type |
| SN74AHCT126NSR | ACTIVE | SO | NS | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126NSRE4 | ACTIVE | SO | NS | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126NSRG4 | ACTIVE | SO | NS | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126PW | ACTIVE | TSSOP | PW | 14 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126PWE4 | ACTIVE | TSSOP | PW | 14 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126PWG4 | ACTIVE | TSSOP | PW | 14 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126PWLE | OBSOLETE | TSSOP | PW | 14 | | TBD | Call TI | Call TI |
| SN74AHCT126PWR | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SN74AHCT126PWRE4 | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |



PACKAGE OPTION ADDENDUM

21-Apr-2008

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | e Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|-----------------|--------------------|------|----------------|---------------------------|------------------|------------------------------|
| SN74AHCT126PWRG4 | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM |
| SNJ54AHCT126FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type |
| SNJ54AHCT126J | ACTIVE | CDIP | J | 14 | 1 | TBD | A42 SNPB | N / A for Pkg Type |
| SNJ54AHCT126W | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type |

⁽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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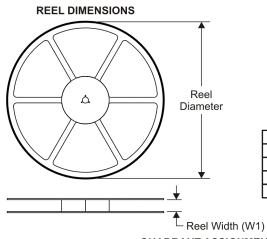
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19-Mar-2008

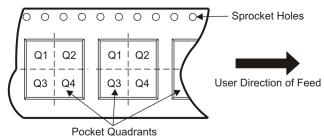
TAPE AND REEL INFORMATION





| | Dimension designed to accommodate the component width |
|----|---|
| B0 | Dimension designed to accommodate the component length |
| K0 | Dimension designed to accommodate the component thickness |
| W | Overall width of the carrier tape |
| P1 | Pitch between successive cavity centers |

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

| Device | | Package Drawing | | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|-----------------|-------|--------------------|----|------|--------------------------|--------------------------|---------|---------|---------|------------|-----------|------------------|
| SN74AHCT126DBR | SSOP | DB | 14 | 2000 | 330.0 | 16.4 | 8.2 | 6.6 | 2.5 | 12.0 | 16.0 | Q1 |
| SN74AHCT126DGVR | TVSOP | DGV | 14 | 2000 | 330.0 | 12.4 | 6.8 | 4.0 | 1.6 | 8.0 | 12.0 | Q1 |
| SN74AHCT126DR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| SN74AHCT126NSR | SO | NS | 14 | 2000 | 330.0 | 16.4 | 8.2 | 10.5 | 2.5 | 12.0 | 16.0 | Q1 |
| SN74AHCT126PWR | TSSOP | PW | 14 | 2000 | 330.0 | 12.4 | 7.0 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |





*All dimensions are nominal

| 7 til dilliciololio ale Homilia | | | | | | | |
|---------------------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
| SN74AHCT126DBR | SSOP | DB | 14 | 2000 | 346.0 | 346.0 | 33.0 |
| SN74AHCT126DGVR | TVSOP | DGV | 14 | 2000 | 346.0 | 346.0 | 29.0 |
| SN74AHCT126DR | SOIC | D | 14 | 2500 | 346.0 | 346.0 | 33.0 |
| SN74AHCT126NSR | SO | NS | 14 | 2000 | 346.0 | 346.0 | 33.0 |
| SN74AHCT126PWR | TSSOP | PW | 14 | 2000 | 346.0 | 346.0 | 29.0 |

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

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.

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.



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

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



DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



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 per side.

D. Falls within JEDEC: 24/48 Pins – MO-153 14/16/20/56 Pins – MO-194

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.



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



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.



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