AM26C31M . . . J OR W PACKAGE

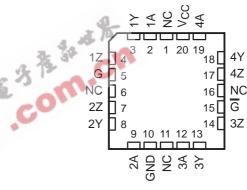
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- Meets or Exceeds the Requirements of TIA/EIA-422-B and ITU Recommendation V.11
- Low Power, $I_{CC} = 100 \ \mu A Typ$
- Operates From a Single 5-V Supply
- High Speed, t_{PLH} = t_{PHL} = 7 ns Typ
- Low Pulse Distortion, t_{sk(p)} = 0.5 ns Typ
- High Output Impedance in Power-Off Conditions
- Improved Replacement for AM26LS31
- Available in Q-Temp Automotive
 - High-Reliability Automotive Applications
 - Configuration Control/Print Support
 - Qualification to Automotive Standards

description/ordering information

The AM26C31 is a differential line driver with complementary outputs, designed to meet the requirements of TIA/EIA-422-B and ITU (formerly CCITT). The 3-state outputs have high-current capability for driving balanced lines, such as twisted-pair or parallel-wire transmission lines, and they provide the high-impedance state in the power-off condition. The enable functions are common to all four drivers and offer the choice of an active-high (G) or active-low (G) enable input. BiCMOS circuitry reduces power consumption without sacrificing speed.

AM26C31Q...D PACKAGE AM26C31C ... D, DB, N, OR NS PACKAGE AM26C31I...D, DB, N, NS, OR PW PACKAGE (TOP VIEW) 16 V_{CC} 1A [1 1Y [15 4A 2 1Z Π 3 14 🛛 4Y GΓ 4 13 1 4Z 2Z 🛛 12 G 5 2Y [11 🛛 3Z 6 10 3Y 2A 7 GND [8 9 3A AM26C31M ... FK PACKAGE (TOP VIEW)





The AM26C31C is characterized for operation from 0°C to 70°C, the AM26C31I is characterized for operation from -40° C to 85°C, the AM26C31Q is characterized for operation over the automotive temperature range of -40° C to 125°C, and the AM26C31M is characterized for operation over the full military temperature range of -55° C to 125°C.



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas instruments standard warranty. Production processing does not necessarily include testing of all parameters.



Copyright © 2004, Texas Instruments Incorporated On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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description/ordering information (continued)

| T _A | PACKAGE [†] | | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|----------------------|--------------|--------------------------|---------------------|
| | PDIP (N) | Tube of 25 | AM26C31CN | AM26C31CN |
| | | Tube of 40 | AM26C31CD | 11/220210 |
| 0°C to 70°C | SOIC (D) | Reel of 2500 | AM26C31CDR | AM26C31C |
| | SOP (NS) | Reel of 2000 | AM26C31CNSR | 26C31 |
| | SSOP (DB) | Reel of 2000 | AM26C31CDBR | 26C31 |
| | PDIP (N) | Tube of 25 | AM26C31IN | AM26C31IN |
| | | Tube of 40 | AM26C31ID | 111000010 |
| 4000 10 0500 | SOIC (D) | Reel of 2500 | AM26C31IDR | AM26C31C |
| –40°C to 85°C | SOP (NS) | Reel of 2000 | AM26C31INSR | 26C31 |
| | SSOP (DB) | Reel of 2000 | AM26C31IDBR | 26C31 |
| | TSSOP (PW) | Tube of 90 | AM26C31IPW | 26C31I |
| 4000 to 40500 | | Tube of 40 | AM26C31QD | AM26C31QD |
| –40°C to 125°C | SOIC (D) | Reel of 2500 | AM26C31QDR | AIVI26C3TQD |
| | CDIP (J) | Tube of 25 | AM26C31MJ | AM26C31MJ |
| –55°C to 125°C | CFP (W) | Tube of 150 | AM26C31MW | AM26C31MW |
| | LCCC (FK) | Tube of 55 | AM26C31MFK | AM26C31MFK |

ORDERING INFORMATION

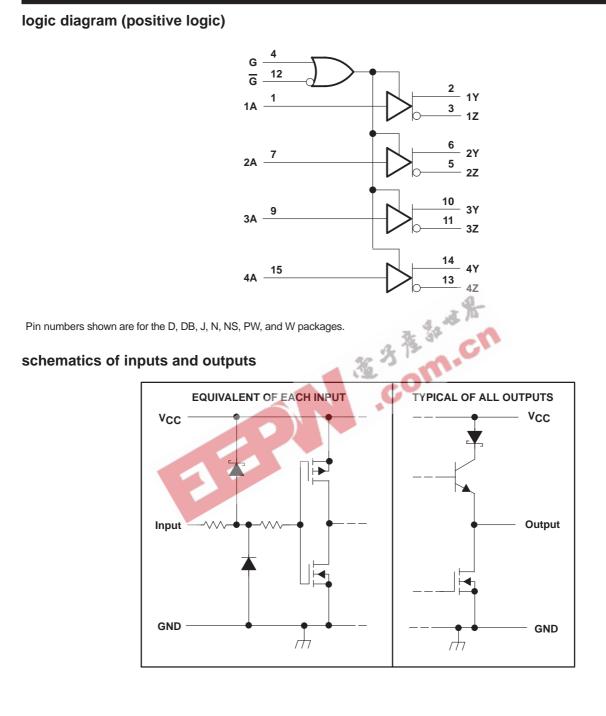
[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

| FUNCTION TABLE (each driver) | | | | | | | | |
|---------------------------------|-----|------|---------|---|--|--|--|--|
| INPUT | ENA | BLES | OUTPUTS | | | | | |
| A | G | G | Y | Z | | | | |
| н | Н | Х | Н | L | | | | |
| L | Н | Х | L | Н | | | | |
| Н | Х | L | н | L | | | | |
| L | Х | L | L | Н | | | | |
| Х | L | Н | Z | Z | | | | |

H = High level, L = Low level, X = Irrelevant, Z = High impedance (off)



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

| Supply voltage range, V _{CC} (see Note 1) | –0.5 V to 7 V |
|---|-----------------------------------|
| Input voltage range, V ₁ | -0.5 V to V _{CC} + 0.5 V |
| Differential input voltage range, VID | 00 |
| | |
| Output voltage range, VO | |
| Input or output clamp current, IIK or IOK | ±20 mA |
| Output current, I _O | ±150 mA |
| V _{CC} current | |
| GND current | |
| Package thermal impedance, θ_{IA} (see Notes 2 and 3): | |
| | |
| | DB package |
| | N package |
| | NS package 64°C/W |
| | PW package 108°C/W |
| Operating virtual junction temperature, T _J | |
| | |
| Storage temperature range, T _{stg} | |

[†] 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. All voltage values, except differential output voltage (V_{OD}), are with respect to the network ground terminal.
 - 2. Maximum power dissipation is a function of $T_J(max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(max) T_A)/\theta_{JA}$. Operating at the absolute maximum T_J of 150°C can affect reliability.
 - 3. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions

| | | | MIN | NOM | MAX | UNIT |
|-----|-----------------------------------|---------|-----|-----|-----|------|
| VCC | Supply voltage | | 4.5 | 5 | 5.5 | V |
| VID | Differential input voltage | | | ±7 | | V |
| VIH | High-level input voltage | | 2 | | | V |
| VIL | Low-level input voltage | | | | 0.8 | V |
| IOH | High-level output current | | | | -20 | mA |
| IOL | Low-level output current | | | | 20 | mA |
| | АМ | 126C31C | 0 | | 70 | |
| т. | AM | 126C311 | -40 | | 85 | °C |
| TA | Operating free-air temperature AM | 126C31Q | -40 | | 125 | -0 |
| | AM | 126C31M | -55 | | 125 | |



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electrical characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

| PARAMETER | | TEST CC | TEST CONDITIONS | | AM26C31C AM26C31I | | | |
|-------------------|--|-------------------------|---|-----|----------------------|------|----|--|
| | | | | MIN | TYP [†] | MAX | | |
| VOH | High-level output voltage | I _O = -20 mA | | 2.4 | 3.4 | | V | |
| VOL | Low-level output voltage | I _O = 20 mA | | | 0.2 | 0.4 | V | |
| IVodi | Differential output voltage magnitude | R _L = 100 Ω, | See Figure 1 | 2 | 3.1 | | V | |
| $\Delta V_{OD} $ | Change in magnitude of differential output voltage‡ | R _L = 100 Ω, | See Figure 1 | | | ±0.4 | V | |
| V _{OC} | Common-mode output voltage | R _L = 100 Ω, | See Figure 1 | | | 3 | V | |
| ∆ Voc | Change in magnitude of common-mode output voltage [‡] | R _L = 100 Ω, | See Figure 1 | | | ±0.4 | V | |
| lj – | Input current | $V_I = V_{CC}$ or GN | ND | | | ±1 | μΑ | |
| | Driver output current with power off | $V_{CC} = 0$ | VO = 6 V | | | 100 | • | |
| lO(off) | | | V _O = -0.25 V | | | -100 | μA | |
| los | Driver output short-circuit current | VO = 0 | | -30 | | -150 | mA | |
| | | V _O = 2.5 V | | | | 20 | | |
| loz | High-impedance off-state output current | V _O = 0.5 V | - | | | -20 | μA | |
| | | . 4 | $V_{I} = 0 V \text{ or } 5 V$ | | | 100 | μΑ | |
| ICC | Quiescent supply current | I _O = 0 | V _I = 2.4 V or 0.5 V, See Note 4 | | 1.5 | 3 | mA | |
| Ci | Input capacitance | CO. | | | 6 | | pF | |
| | values are at $V_{00} = 5 V$ and $T_{4} = 25^{\circ}C$ | | | | 0 | | рі | |

[†] All typical values are at $V_{CC} = 5$ V and $T_A = 25^{\circ}C$.

 $\Delta |V_{OD}|$ and $\Delta |V_{OC}|$ are the changes in magnitude of V_{OD} and V_{OC} , respectively, that occur when the input is changed from a high level to a low level.

NOTE 4: This parameter is measured per input. All other inputs are at 0 or 5 V.

switching characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

| | PARAMETER | TEST C | TEST CONDITIONS | | AM26C31C AM26C31I | | |
|--|--|---------------|-----------------|-----|----------------------|-----|----|
| | | | | MIN | TYP† | MAX | |
| ^t PLH | Propagation delay time, low- to high-level output | S1 is open, | See Figure 2 | 3 | 7 | 12 | ns |
| ^t PHL | Propagation delay time, high- to low-level output | S1 is open, | See Figure 2 | 3 | 7 | 12 | ns |
| ^t sk(p) | Pulse skew time (t _{PLH} – t _{PHL}) | S1 is open, | See Figure 2 | | 0.5 | 4 | ns |
| ^t r(OD), ^t f(OD) | Differential output rise and fall times | S1 is open, | See Figure 3 | | 5 | 10 | ns |
| ^t PZH | Output enable time to high level | S1 is closed, | See Figure 4 | | 10 | 19 | ns |
| ^t PZL | Output enable time to low level | S1 is closed, | See Figure 4 | | 10 | 19 | ns |
| ^t PHZ | Output disable time from high level | S1 is closed, | See Figure 4 | | 7 | 16 | ns |
| ^t PLZ | Output disable time from low level | S1 is closed, | See Figure 4 | | 7 | 16 | ns |
| C _{pd} | Power dissipation capacitance (each driver) (see Note 5) | S1 is open, | See Figure 2 | | 170 | | pF |

[†] All typical values are at $V_{CC} = 5$ V and $T_A = 25^{\circ}C$.

NOTE 5: C_{pd} is used to estimate the switching losses according to $P_D = C_{pd} \times V_{CC}^2 \times f$, where f is the switching frequency.



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electrical characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

| PARAMETER | | TEST CO | TEST CONDITIONS | | AM26C31Q AM26C31M | | | |
|-------------------|---|-------------------------|---------------------------------------|-----|----------------------|------|----|--|
| | | | | MIN | TYP [†] | MAX | | |
| Vон | High-level output voltage | I _O = -20 mA | | 2.2 | 3.4 | | V | |
| VOL | Low-level output voltage | I _O = 20 mA | | | 0.2 | 0.4 | V | |
| Vod | Differential output voltage magnitude | RL = 100 Ω, | See Figure 1 | 2 | 3.1 | | V | |
| $\Delta V_{OD} $ | Change in magnitude of differential output voltage [‡] | R _L = 100 Ω, | See Figure 1 | | | ±0.4 | V | |
| Voc | Common-mode output voltage | R _L = 100 Ω, | See Figure 1 | | | 3 | V | |
| Δ VOC | Change in magnitude of common-mode output voltage [‡] | R _L = 100 Ω, | See Figure 1 | | | ±0.4 | V | |
| Ц | Input current | $V_I = V_{CC}$ or GN | ND | | | ±1 | μΑ | |
| | Driver output current with power off | | VO = 6 V | | | 100 | | |
| lO(off) | | ACC = 0 | V _O = -0.25 V | | | -100 | μA | |
| IOS | Driver output short-circuit current | VO = 0 | | | | -170 | mA | |
| | | V _O = 2.5 V | | | | 20 | | |
| loz | High-impedance off-state output current | V _O = 0.5 V | | | | -20 | μA | |
| | | IO = 0 | VI = 0 V or 5 V | | | 100 | μA | |
| ICC | Quiescent supply current | I _O = 0 | VI = 2.4 V or 0.5 V, See Note 4 | | | 3.2 | mA | |
| Ci | Input capacitance | C | | | 6 | | pF | |

[†] All typical values are at $V_{CC} = 5$ V and $T_A = 25^{\circ}$ C. [‡] $\Delta |V_{OD}|$ and $\Delta |V_{OC}|$ are the changes in magnitude of V_{OD} and V_{OC} , respectively, that occur when the input is changed from a high level to a low level.

NOTE 4: This parameter is measured per input. All other inputs are at 0 V or 5 V.

switching characteristics over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

| PARAMETER | | TEST CONDITIONS | | AM26C31Q AM26C31M | | | UNIT |
|---|---|-----------------|--------------|----------------------|------|-----|------|
| | | | | MIN | TYP† | MAX | |
| ^t PLH | Propagation delay time, low- to high-level output | S1 is open, | See Figure 2 | | 7 | 12 | ns |
| ^t PHL | Propagation delay time, high- to low-level output | S1 is open, | See Figure 2 | | 6.5 | 12 | ns |
| ^t sk(p) | Pulse skew time (tpLH - tpHL) | S1 is open, | See Figure 2 | | 0.5 | 4 | ns |
| ^t r(OD) ^{, t} f(OD) | Differential output rise and fall times | S1 is open, | See Figure 3 | | 5 | 12 | ns |
| ^t PZH | Output enable time to high level | S1 is closed, | See Figure 4 | | 10 | 19 | ns |
| ^t PZL | Output enable time to low level | S1 is closed, | See Figure 4 | | 10 | 19 | ns |
| ^t PHZ | Output disable time from high level | S1 is closed, | See Figure 4 | | 7 | 16 | ns |
| ^t PLZ | Output disable time from low level | S1 is closed, | See Figure 4 | | 7 | 16 | ns |
| C _{pd} | Power dissipation capacitance (each driver) (see Note 5) | S1 is open, | See Figure 2 | | 100 | | pF |

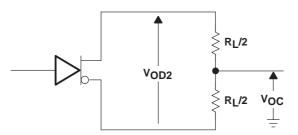
[†] All typical values are at V_{CC} = 5 V and T_A = 25° C.

NOTE 5: C_{pd} is used to estimate the switching losses according to $P_D = C_{pd} \times V_{CC}^2 \times f$, where f is the switching frequency.

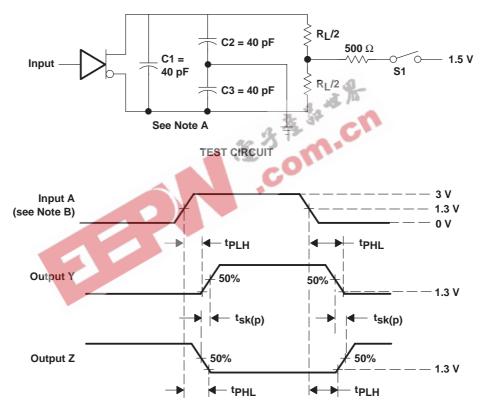


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PARAMETER MEASUREMENT INFORMATION







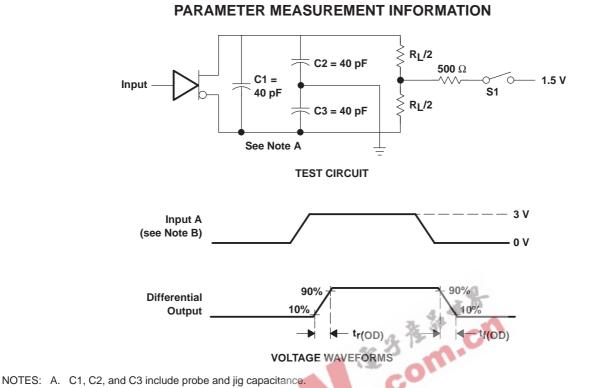
NOTES: A. C1, C2, and C3 include probe and jig capacitance.

B. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, duty cycle \leq 50%, and t_r, t_f \leq 6 ns.

Figure 2. Propagation Delay Time and Skew Waveforms and Test Circuit



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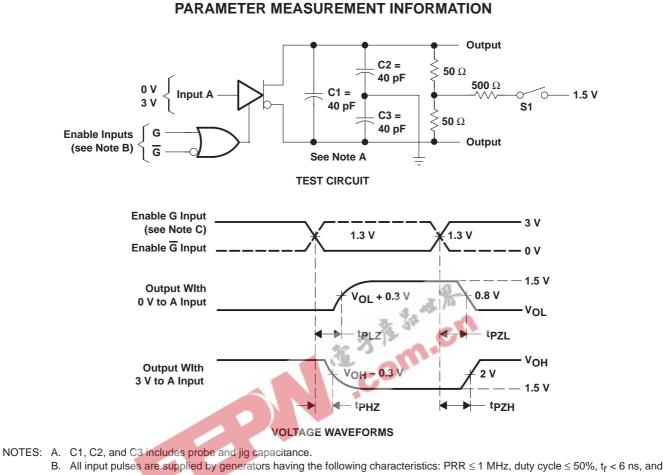


B. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, duty cycle \leq 50%, and t_r, t_f \leq 6 ns.

Figure 3. Differential-Output Rise- and Fall-Time Waveforms and Test Circuit



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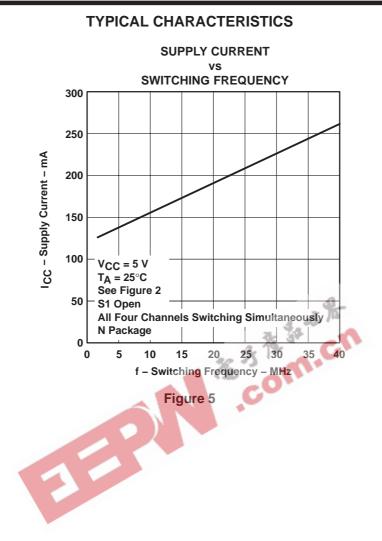


- $t_{\rm f} < 6 \, \rm ns.$
- C. Each enable is tested separately.

Figure 4. Output Enable- and Disable-Time Waveforms and Test Circuit



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POST OFFICE BOX 655303 • DALLAS, TEXAS 75265



PACKAGE OPTION ADDENDUM

11-Feb-2005

PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | n MSL Peak Temp ⁽³⁾ |
|------------------|-----------------------|-----------------|--------------------|------|----------------|-------------------------|------------------|--|
| 5962-9163901Q2A | ACTIVE | LCCC | FK | 20 | 1 | None | POST-PLATE | Level-NC-NC-NC |
| 5962-9163901QEA | ACTIVE | CDIP | J | 16 | 1 | None | A42 SNPB | Level-NC-NC-NC |
| 5962-9163901QFA | ACTIVE | CFP | W | 16 | 1 | None | A42 SNPB | Level-NC-NC-NC |
| AM26C31CD | ACTIVE | SOIC | D | 16 | 40 | Pb-Free (RoHS) | CU NIPDAU | Level-2-250C-1 YEAR |
| AM26C31CDBLE | OBSOLETE | SSOP | DB | 16 | | None | Call TI | Call TI |
| AM26C31CDBR | ACTIVE | SSOP | DB | 16 | 2000 | Pb-Free (RoHS) | CU NIPDAU | Level-2-260C-1 YEAR/ Level-1-235C-UNLIM |
| AM26C31CDR | ACTIVE | SOIC | D | 16 | 2500 | Pb-Free (RoHS) | CU NIPDAU | Level-2-250C-1 YEAR |
| AM26C31CN | ACTIVE | PDIP | Ν | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | Level-NC-NC-NC |
| AM26C31CNSR | ACTIVE | SO | NS | 16 | 2000 | Pb-Free (RoHS) | CU NIPDAU | Level-2-260C-1 YEAR/ Level-1-235C-UNLIM |
| AM26C31ID | ACTIVE | SOIC | D | 16 | 40 | Pb-Free (RoHS) | CU NIPDAU | Level-2-250C-1 YEAR |
| AM26C31IDBLE | OBSOLETE | SSOP | DB | 16 | 27 | None | Call TI | Call TI |
| AM26C31IDBR | ACTIVE | SSOP | DB | 16 | 2000 | Pb-Free (RoHS) | CU NIPDAU | Level-2-260C-1 YEAR/ Level-1-235C-UNLIM |
| AM26C31IDR | ACTIVE | SOIC | D | 16 | 2500 | Pb-Free (RoHS) | CU NIPDAU | Level-2-250C-1 YEAR |
| AM26C31IN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | Level-NC-NC-NC |
| AM26C31INSR | ACTIVE | SO | NS | 16 | 2000 | Pb-Free (RoHS) | CU NIPDAU | Level-2-260C-1 YEAR/ Level-1-235C-UNLIM |
| AM26C31IPW | ACTIVE | TSSOP | PW | 16 | 90 | Pb-Free (RoHS) | CU NIPDAU | Level-1-250C-UNLIM |
| AM26C31MFKB | ACTIVE | LCCC | FK | 20 | 1 | None | POST-PLATE | Level-NC-NC-NC |
| AM26C31MJB | ACTIVE | CDIP | J | 16 | 1 | None | A42 SNPB | Level-NC-NC-NC |
| AM26C31MWB | ACTIVE | CFP | W | 16 | 1 | None | A42 SNPB | Level-NC-NC-NC |
| AM26C31QD | ACTIVE | SOIC | D | 16 | 40 | None | CU NIPDAU | Level-1-220C-UNLIM |
| AM26C31QDR | ACTIVE | SOIC | D | 16 | 2500 | None | CU NIPDAU | Level-1-220C-UNLIM |

⁽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 - May not be currently available - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

None: Not yet available Lead (Pb-Free).

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.

Green (RoHS & no Sb/Br): TI defines "Green" to mean "Pb-Free" and in addition, uses package materials that do not contain halogens, including bromine (Br) or antimony (Sb) above 0.1% of total product weight.



PACKAGE OPTION ADDENDUM

11-Feb-2005

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDECindustry standard classifications, and peak solder temperature.

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J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE

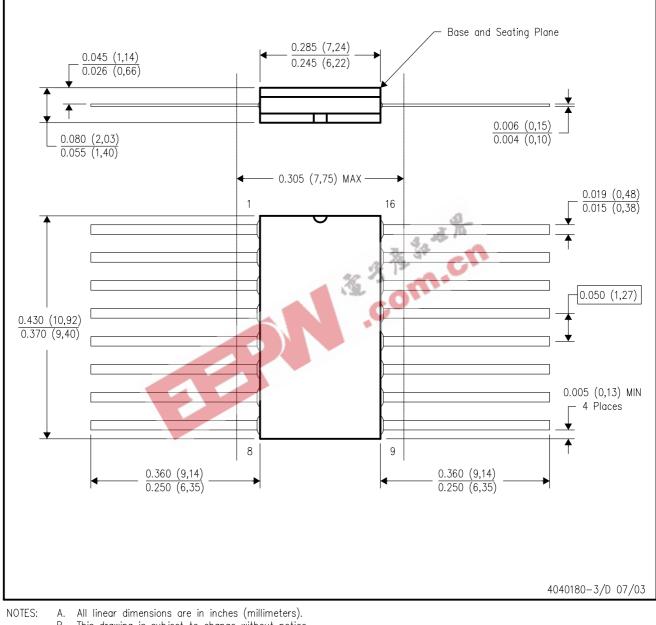
PINS ** 14 16 18 20 DIM 0.300 0.300 0.300 0.300 В А (7,62) (7,62) (7,62) (7,62) BSC BSC BSC BSC 8 14 0.785 1.060 .840 0.960 B MAX (19,94)(21, 34)(24, 38)(26, 92)B MIN С 0.300 0.300 0.310 0.300 C MAX (7, 62)(7,62) (7, 62)(7, 87)C MIN 7 0.245 0.245 0.220 0.245 0.065 (1,65) 0.045 (1,14) (6, 22)(6, 22)(5, 59)(6, 22)0.060 (1,52) - 0.005 (0,13) MIN Α -0.015 (0,38) 0.200 (5,08) MAX Seating Plane 0.130 (3,30) MIN 0.026 (0,66) 0.014 (0,36) 0°-15° 0.100 (2,54) 0.014 (0,36) 0.008 (0,20) 4040083/F 03/03

NOTES:

- 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-F16)

CERAMIC DUAL FLATPACK



- 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-F16 and JEDEC MO-092AC

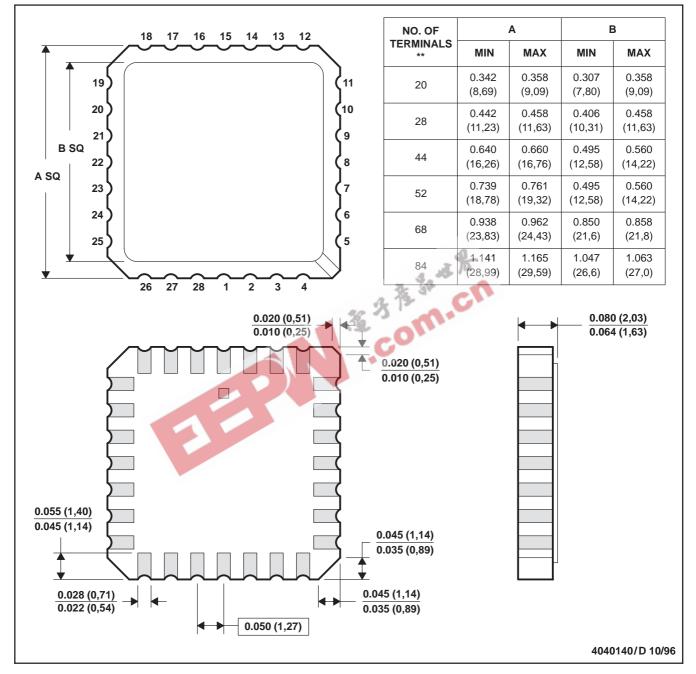


MECHANICAL DATA

MLCC006B - OCTOBER 1996

LEADLESS CERAMIC CHIP CARRIER

FK (S-CQCC-N**) 28 TERMINAL SHOWN



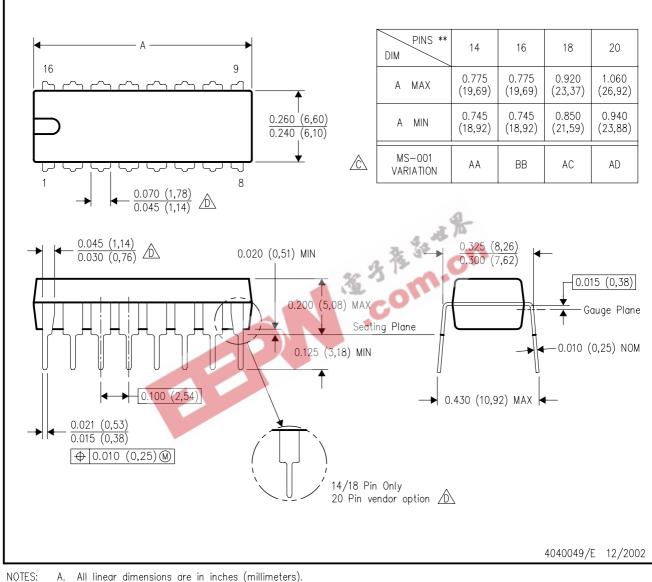
NOTES: A. All linear dimensions are in inches (millimeters).

- 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



PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



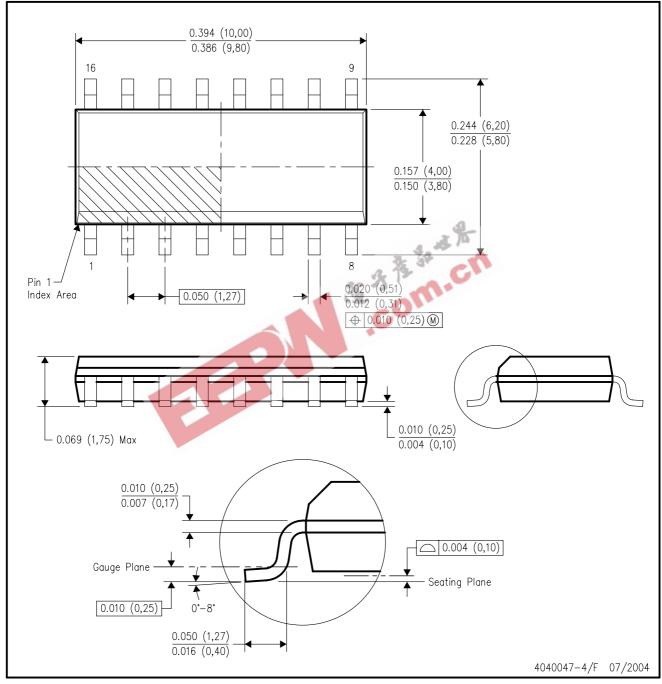
A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.

- \triangle Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



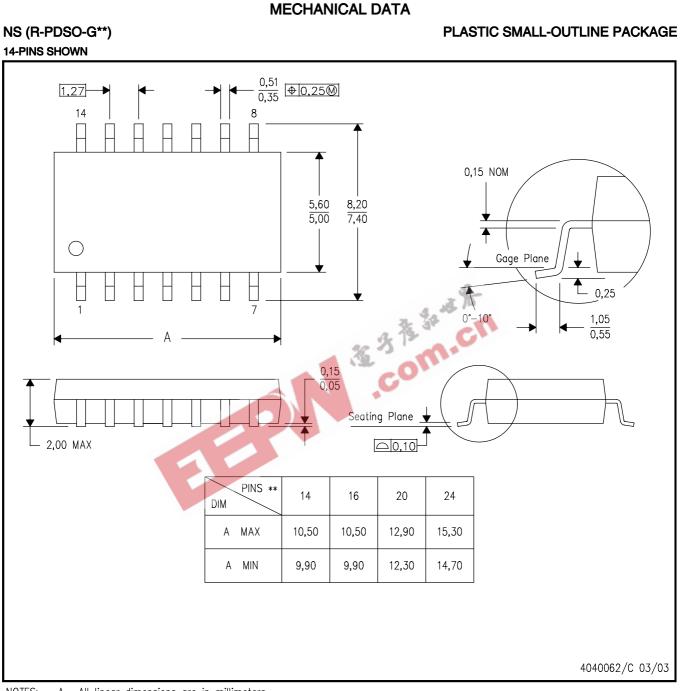
NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).

D. Falls within JEDEC MS-012 variation AC.





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.

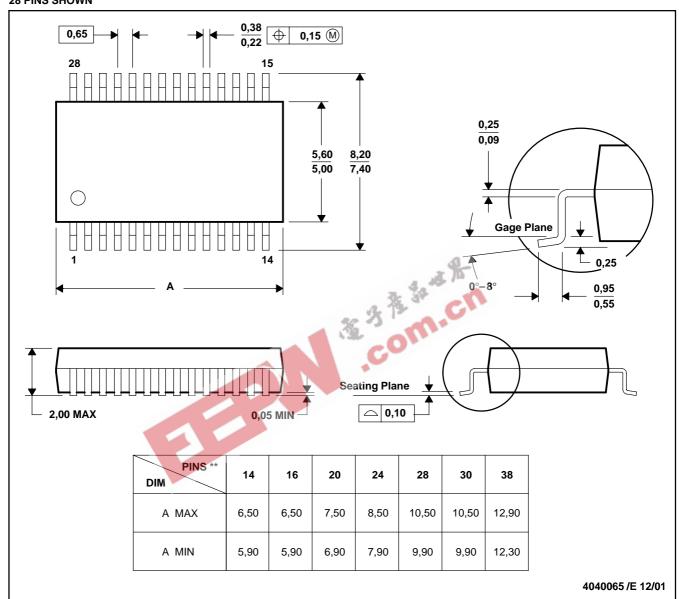


MECHANICAL DATA

MSSO002E - JANUARY 1995 - REVISED DECEMBER 2001

PLASTIC SMALL-OUTLINE

DB (R-PDSO-G**) 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

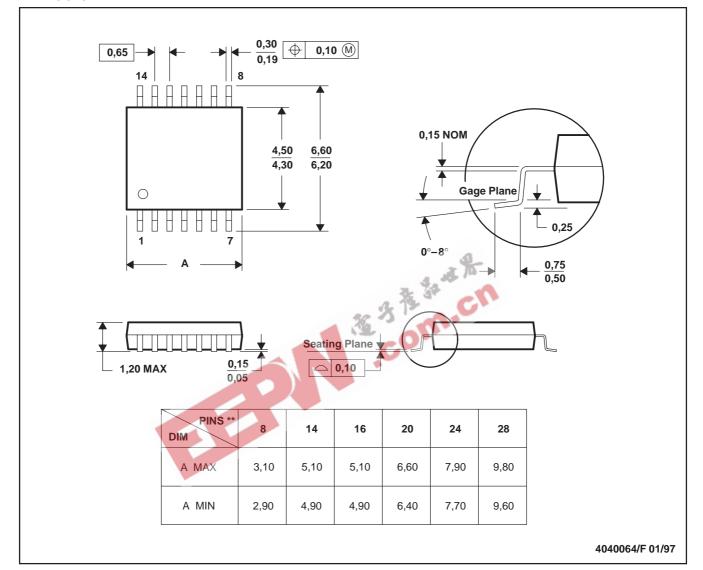


MECHANICAL DATA

MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

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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